

Mathematics

Ages 5

to 6

Glen K. Dash

Today is my first day in School.



Today is my
second year in
School.



Preface

After teaching High School for twenty two years, I decided to write books. I taught High School Mathematics, Additional Mathematics, Biology, Human and Social Biology, Physics, Integrated Science, Geography, SAT Mathematics, SAT Physics and MCAT Physics in the past and I am capable of teaching subjects in the Social Sciences and Business fields.

A few years ago, the new Elementary School Curriculum was introduced in my country and there was a sudden need for Mathematics books to reflect this. That was when I decided to get copies of the new Elementary School Curriculum and I started to write. The new Elementary School Curriculum is integrated in nature and because I have experience in teaching different subjects, I was able to integrate the lessons in this book.

This is the first in a series of seven books that will cover the new curriculum for year one to the final year leading up to examination. This book can be used globally, because the core content for Mathematics is the same internationally.

There are many activities designed for students regardless of their intelligence level. Many colorful diagrams, photos and illustrations are used in the book to attract the attention of students. I would encourage parents to print this book when it is downloaded and work through all the exercises with their children.

It is my intention to improve this book regularly so that Teachers, parents and students benefit fully.

If you are a Publisher and would like to get in contact with me to distribute paperback copies of this book globally, my e-mail address is kishwardass@hotmail.com.

CONTENTS

NUMBER

Pre number

Groups	1
Same colour	1
Same size	2
Same shape	3
Same texture	4
Same names	5
Same shape with same colour	6
One to one correspondence: more than	7
One to one correspondence: equal to	8
As many as	9
Most and least	10
Count to 20 in ascending order	12
Count backwards from 20 to 0	13
Counting on from a given number	
From 10 to 20	14
From 5 to 20	15
From 13 to 20	16
From 8 to 20	16
Counting back from a given number	
From 10 back to 0	17
From 20 back to 5	18
From 20 back to 10	19
From 15 back to 0	20

Number concepts

Zero	21
One	22
Two	24
Three	26
Four	28
Five	30
Six	32
Seven	34
Eight	36
Nine	38
Ten	40

Using 5 to make 6, 7, 8, 9 and 10	42
Money: coins	43
Equivalent coins	43
Money: dollars	45
Equivalent dollars	45
Buying fruits with coins	47
At the grocery with dollars	48
Ordinal numbers: first, second, third and last	49
Number patterns	50
Two elements pattern	53
Three elements pattern	55
Addition	
And	57
How many altogether	58
In all	59
Equals	60
Add	61
Plus	62
Total	63
Sum	64
+ and = signs	65
Addition with Zero	66
Adding vertically	67
Adding horizontally	69
Addition with money	71
Number stories	74
Subtraction	
Remove and remain	75
Take away	77
Leaves	79
Minus and equals	81
Subtract	83
- and = signs	85
Subtraction with zero	86
Subtracting vertically	87
Subtracting horizontally	89
Subtraction with money	91
Number stories	94

Mental Mathematics	
Using the number line	95
Groups of five for easier addition	98
Vocabulary for numbers	100
GEOMETRY	
Plane shapes	106
Properties of plane shapes	110
Models with plane shapes	111
Solids	113
Special names for solids	114
Properties of solids	117
Models with solids	119
2-D and 3-D shapes	122
Comparing plane shapes	124
Comparing solids	125
Geometrical patterns	
Patterns with plane shapes	126
2 shapes pattern	126
3 shapes pattern	127
Patterns with solids	
2 solids pattern	128
3 solids pattern	129
Vocabulary for geometry	130
MEASUREMENT	
Length	137
Long and short	139
Longer and shorter	140
Short and shorter	141
Long and longer	142
Tall and taller	143
As long as (same length)	144
Wide and narrow	145
Thin and fat	146
Deep and shallow	147
High and low	148
Near and far	149

Mass	
Light and heavy	150
Heavy and heavier	152
Light and lighter	153
Easy to push and hard to push	154
Easy to pull and hard to pull	155
Weight	
Same weight	156
Light and heavy, lighter and heavier	157
Time	
Day and night	158
Time of day-sequence of activities	159
Early and earlier	160
Late and later	161
Short time and long time	162
Vocabulary for measurement	163
STATISTICS	
Sorting and grouping	168
Count	168
Sort and group	169
Put them in a table	170
Object chart (horizontal with grids)	171
Object chart (vertical with grids)	172
Picture chart (horizontal with grids)	173
Picture chart (vertical with grids)	174
Object chart (horizontal without grids)	175
Object chart (vertical without grids)	176
Picture chart (horizontal without grids)	177
Picture chart (vertical without grids)	178
Activity	179
Activity	180
Vocabulary for statistics	181

NUMBER

Pre-Number



Groups

<p>They are the same.</p> 	 <p>same</p>	<p>They are different.</p> 	 <p>different</p>
---	---	--	--













Circle the **same** colour.

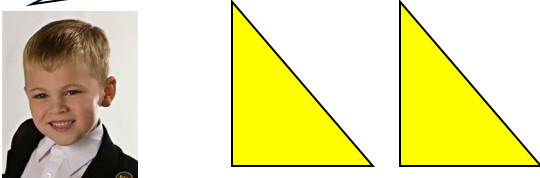
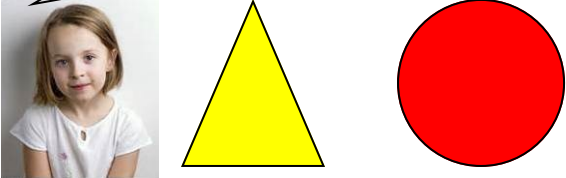
Same size

<p>They are the same size.</p> 	<p>They are different in size.</p> 
---	--


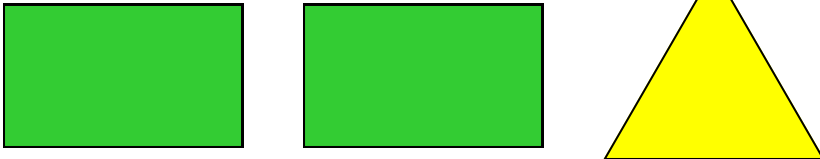
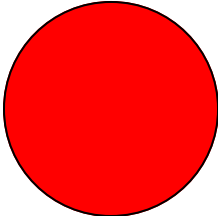
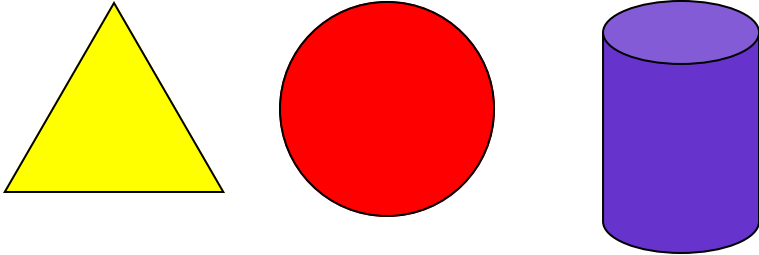
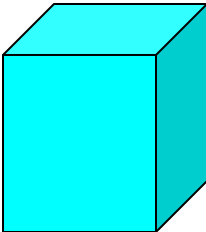
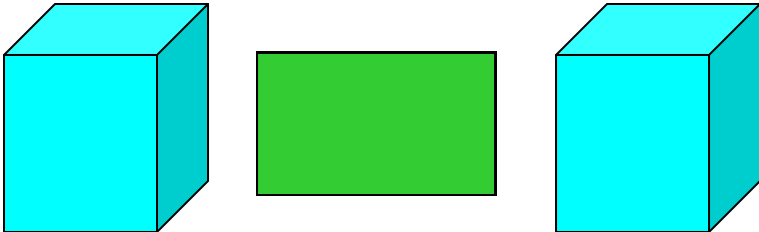
Circle the **same** size.

Same shape

<p>These have the same shape.</p> 	<p>These have different shapes.</p> 
--	---

Circle the **same** shape.



Same texture









Circle the **hard** or **soft** ones.



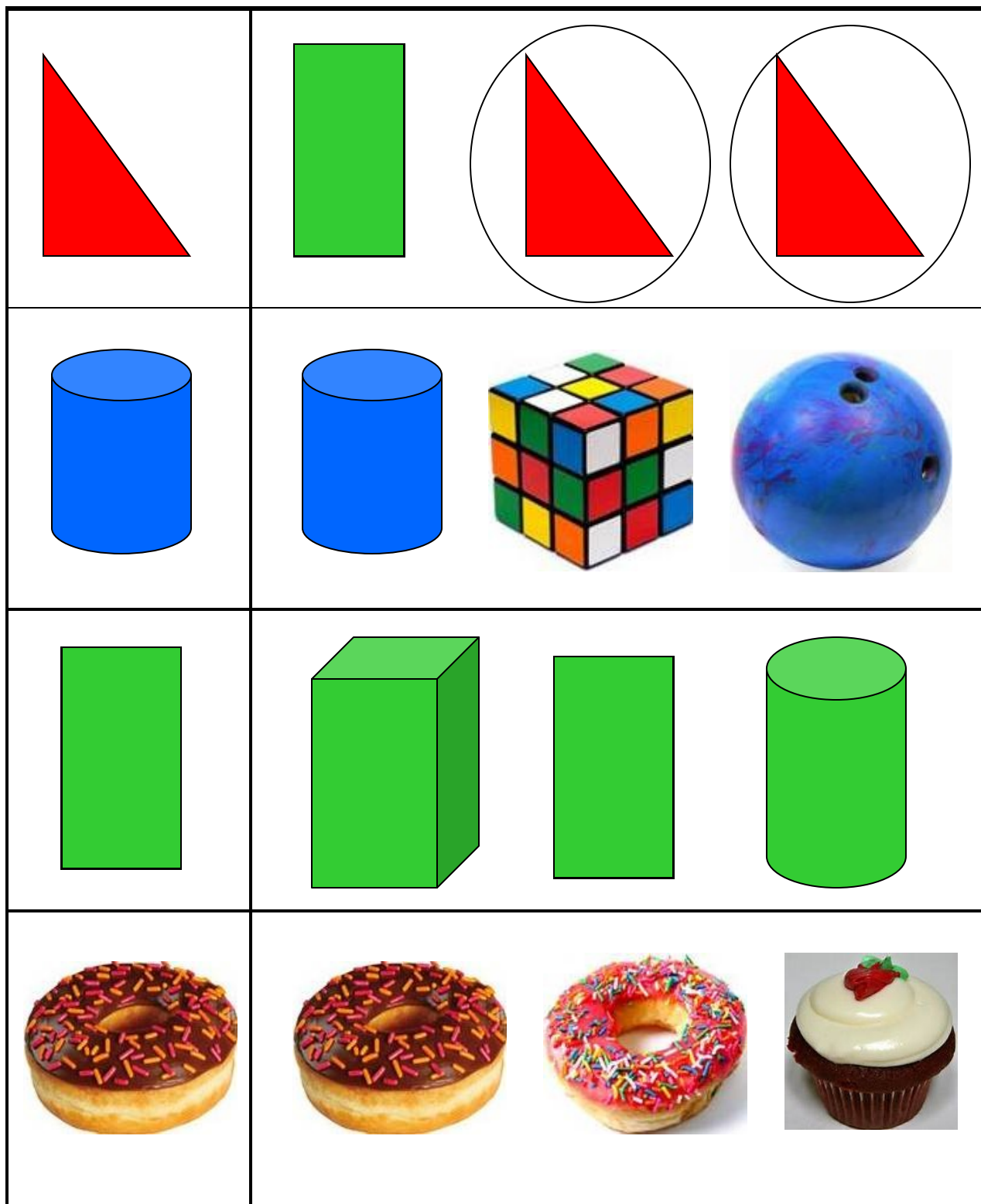
Same names

<p>These have the same names.</p> 	<p>These have different names.</p> 
--	--

Circle the ones with the **same** names.

<p>fruit</p> 	
<p>ice cream</p> 	
<p>donut</p> 	

Same shape with same colour
Circle the same shape which has the same colour



One to one correspondence: more than

I have more than Faith.

I have less than Joel.

more than


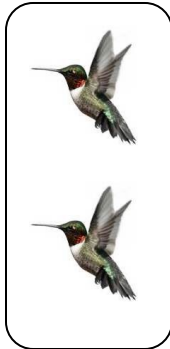
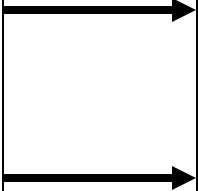
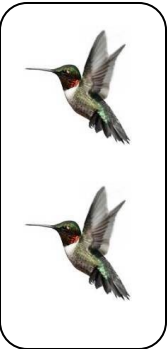
less than

Write **m** for more than and **l** for less than.


<p>1</p>	<p>m</p>	<p></p>	<p></p>
<p></p>	<p></p>	<p></p>	<p></p>

One to one correspondence: equal to

They are **equal**.

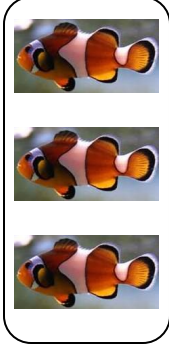
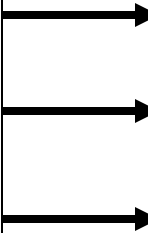
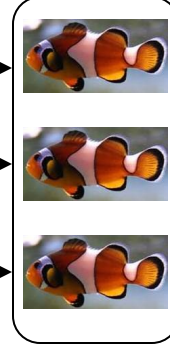
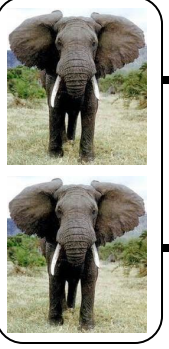

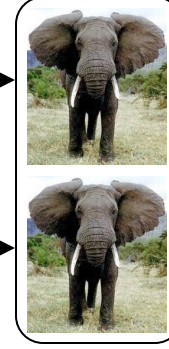
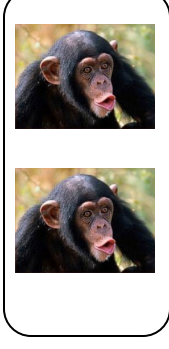
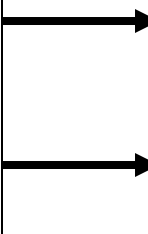
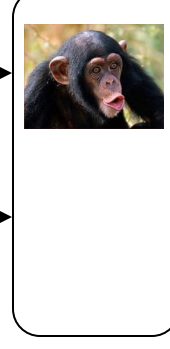
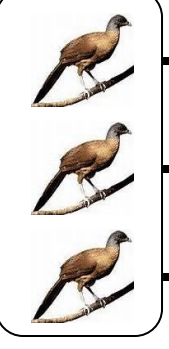
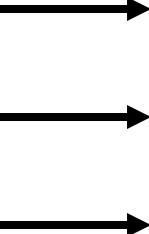
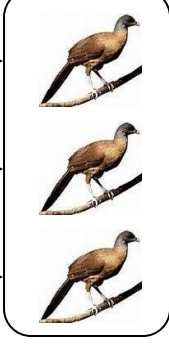





They are **equal**.



equal to equal to

Write **e** for equal to and **n** for not equal to.

   <p>e e</p>	   <p> </p>
   <p> </p>	   <p> </p>

As many as means equal

<p>I have as many as Faith.</p>		<p>I have as many as Joel.</p>
	<p>as many as</p>	

Write **a** next to as many as.

<p>a</p>	<p>a</p>	<p></p>	<p></p>
<p></p>	<p></p>	<p></p>	<p></p>

Most and least

I have **most**.

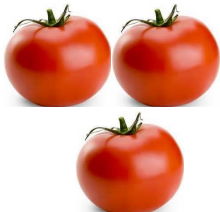
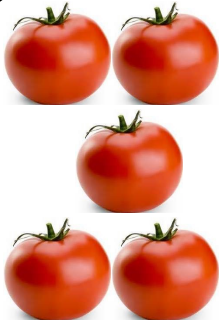

I have **least**.

most least




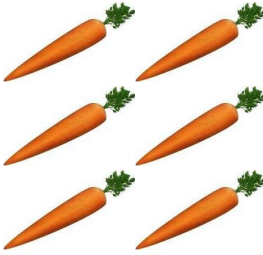
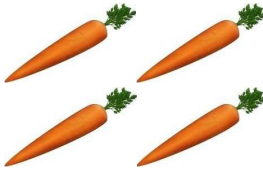
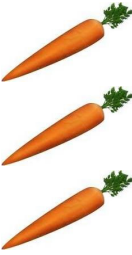
Write **m** for most and **l** for least.

<p>m</p>	<p>l</p>	<p></p>	<p></p>
<p></p>	<p></p>	<p></p>	<p></p>

Most and least

		
<input type="text"/>	most	least

Write **m** next to most and **l** next to least.

		
<input type="text"/>	<input type="text"/>	<input type="text"/>
		
<input type="text"/>	<input type="text"/>	<input type="text"/>

Count to 20 in ascending order

ACTIVITY: The teacher will use flashcards to help the students count.

0	1	2	3	4
5	6	7	8	9
10	11	12	13	14
15	16	17	18	19
20				

Count backwards from 20 to 0

ACTIVITY: The teacher will use flashcards to help the students count.

20	19	18	17	16
15	14	13	12	11
10	9	8	7	6
5	4	3	2	1
0				

Counting on from a given number

Start from 10 and count on to 20.

ACTIVITY: The teacher will use flashcards to help the students count.

10	11	12	13	14
15	16	17	18	19
20				

Start from 5 and count on to 20.

ACTIVITY: The teacher will use flashcards to help the students count.

5	6	7	8	9
10	11	12	13	14
15	16	17	18	19
20				

Start from 13 and count on to 20.

13	14	15	16	17
18	19	20		

Start from 8 and count on to 20.

8	9	10	11	12
13	14	15	16	17
18	19	20		

Counting back from a given number

Start from 10 and count back to 0.

ACTIVITY: The teacher will use flashcards to help the students count.

10	9	8	7	6
5	4	3	2	1
0				

Start from 20 and count back to 5.

ACTIVITY: The teacher will use flashcards to help the students count.

20	19	18	17	16
15	14	13	12	11
10	9	8	7	6
5				

Start from 20 and count back to 10.

ACTIVITY: The teacher will use flashcards to help the students count.

20	19	18	17	16
15	14	13	12	11
10				





Start from 15 and count back to 0.

ACTIVITY: The teacher will use flashcards to help the students count.

15	14	13	12	11
10	9	8	7	6
5	4	3	2	1
0				

NUMBER CONCEPTS

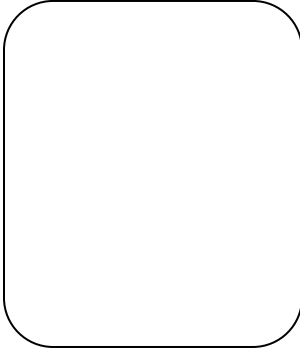
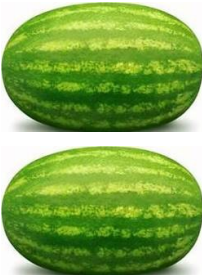
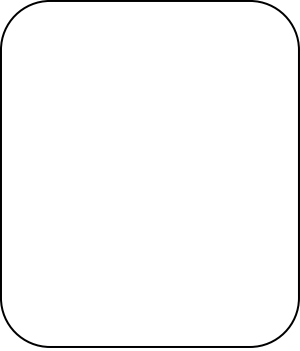



0 Zero

<p>I just ate my last </p>	<p>Mummy just used the last </p>
	
<p>Now I have none. We say zero.</p>	<p>Now she has none. We say zero.</p>

Trace and write.

0	0	0	0	0	0
0					
zero					

Write 0 next to the sets with zero.

1 one
Joel goes to School

1 family Today is my first day in School one family

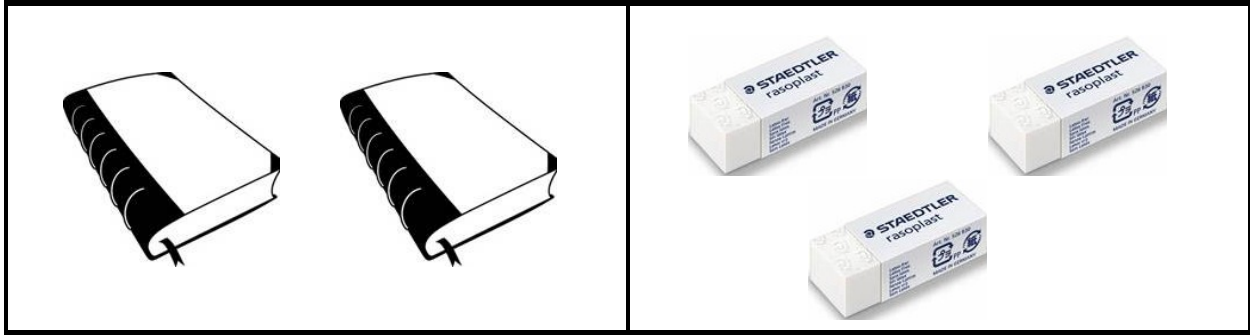
Joel Faith daddy mummy

1 school one school 1 teacher one teacher

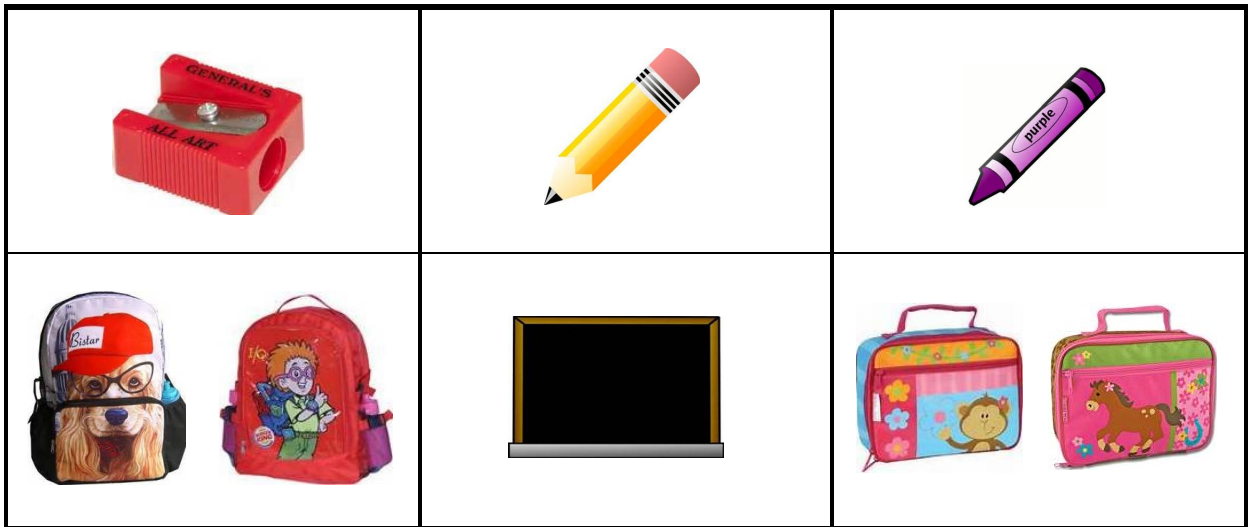
Trace and write.

1	1	1	1	1	1
1					
one					

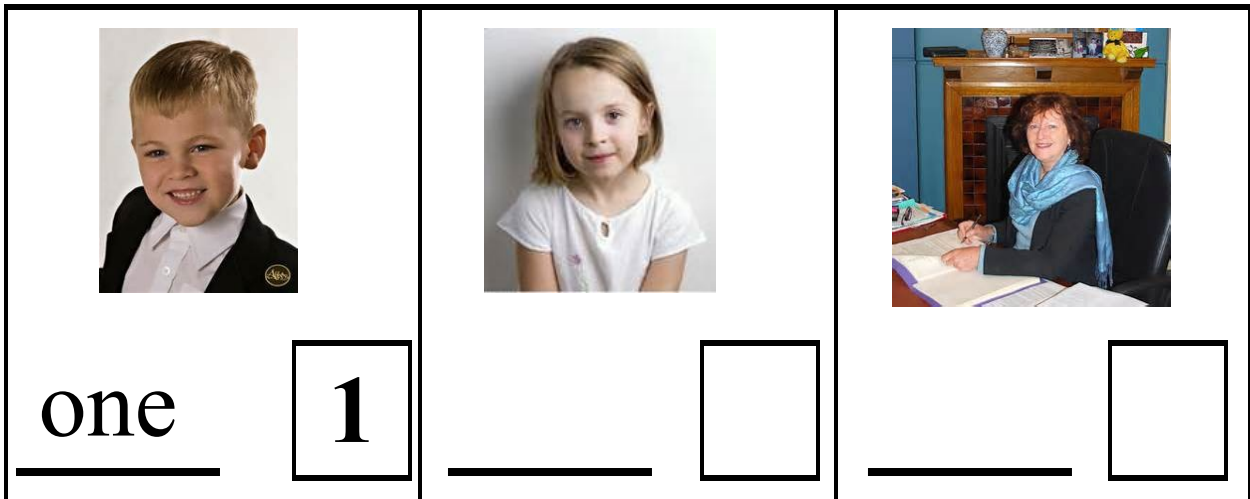
Circle 1 object.



Circle the sets with 1.



Write one and 1.



2 two

Joel and mummy go to the bookstore.

2 islands

two islands



2 water taxis



two water taxis

2 towers

two towers



2 flags

two flags



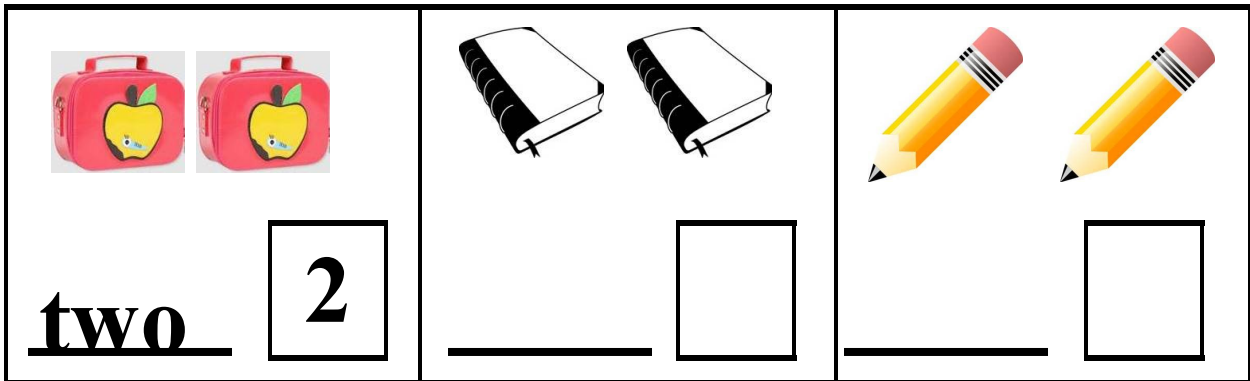
Trace and write.

2	2	2	2	2	2
2					
two					

Circle the sets with 2.



Write two and 2.


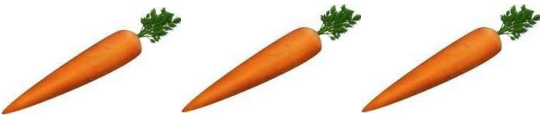




Draw lines from 2 to the correct sets.



3 three



Joel and his class go to the garden at school.

3 tomatoes three tomatoes 	3 carrots three carrots 
3 bananas three bananas 	3 cabbages three cabbages 

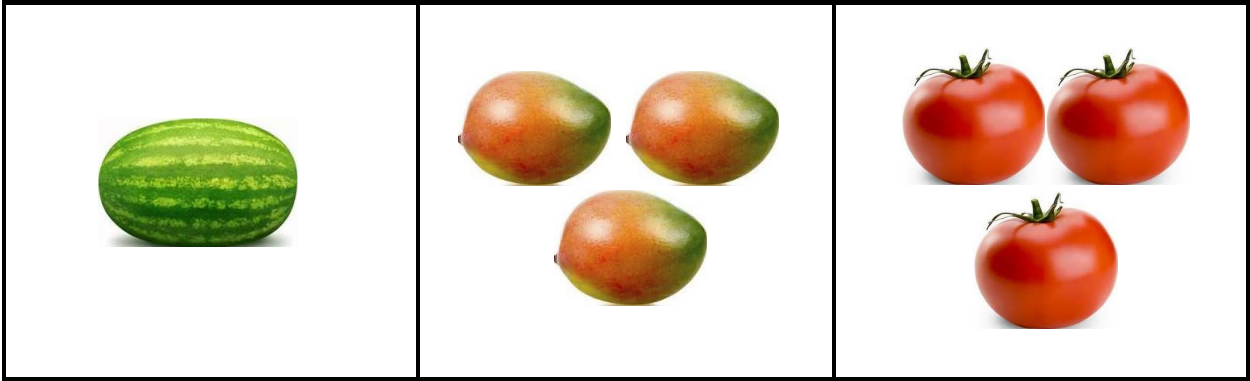
Trace and write.

3	3	3	3	3	3
3					
three					

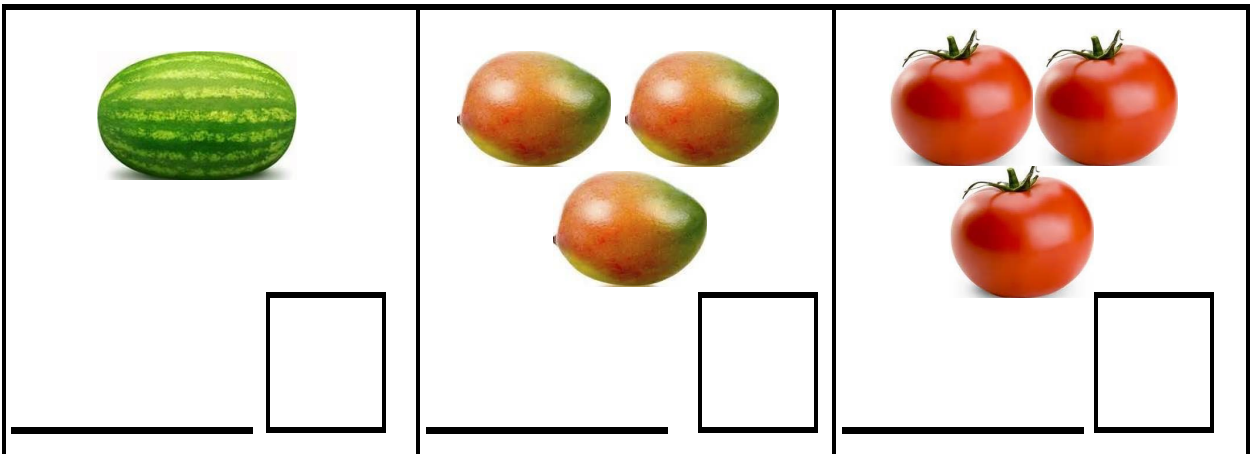
Circle 3 vegetables in each set.

	
---	--

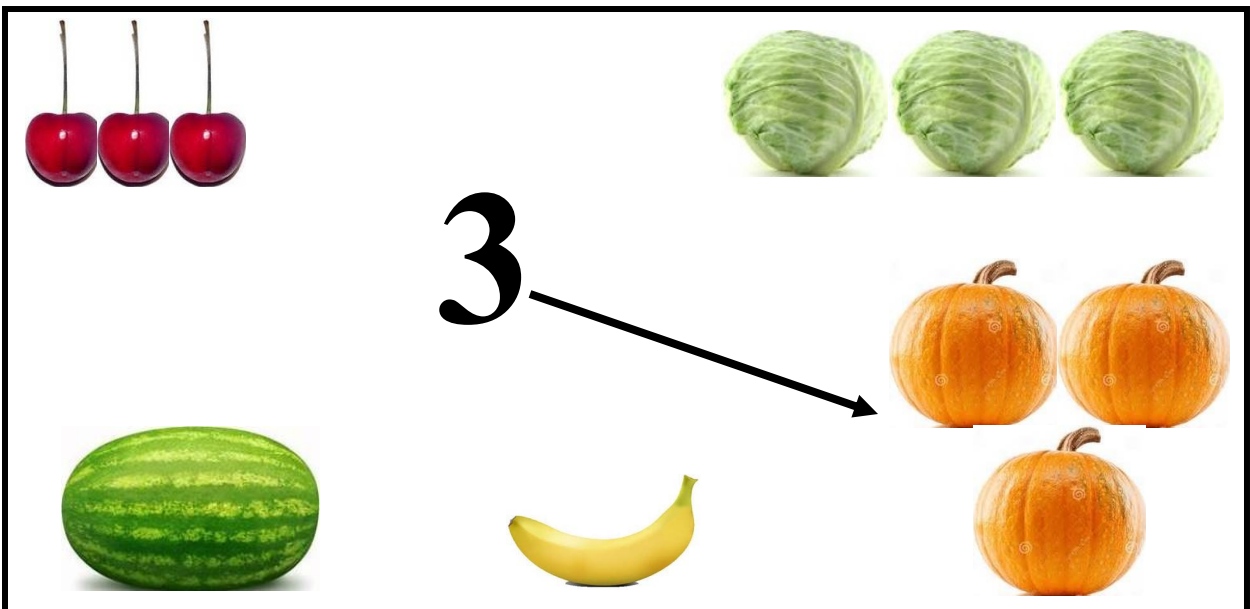
Circle the sets with 3.









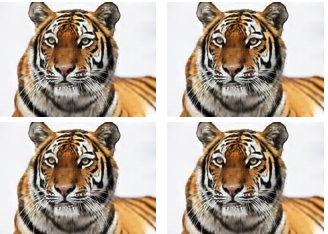
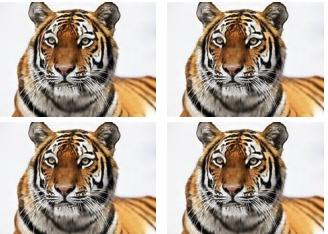
Write three and 3 in the correct box.



Draw lines from 3 to the correct sets.



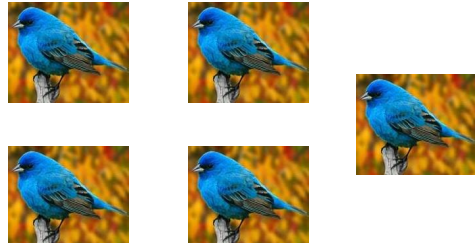
4 four
Joel and his family go to the zoo.

4 people 	four people 	4 buses 	four buses 
4 lions 	four lions 	4 tigers 	four tigers 

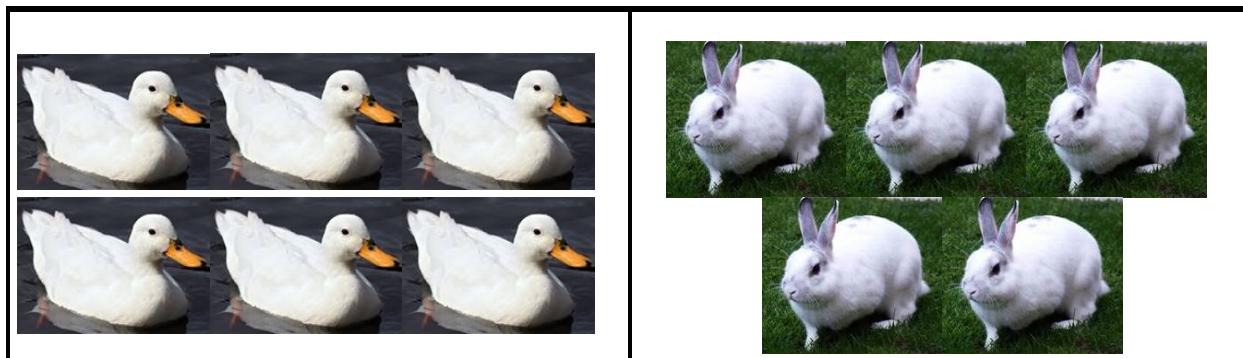
Trace and write.

4	4	4	4	4	4
4					
four					

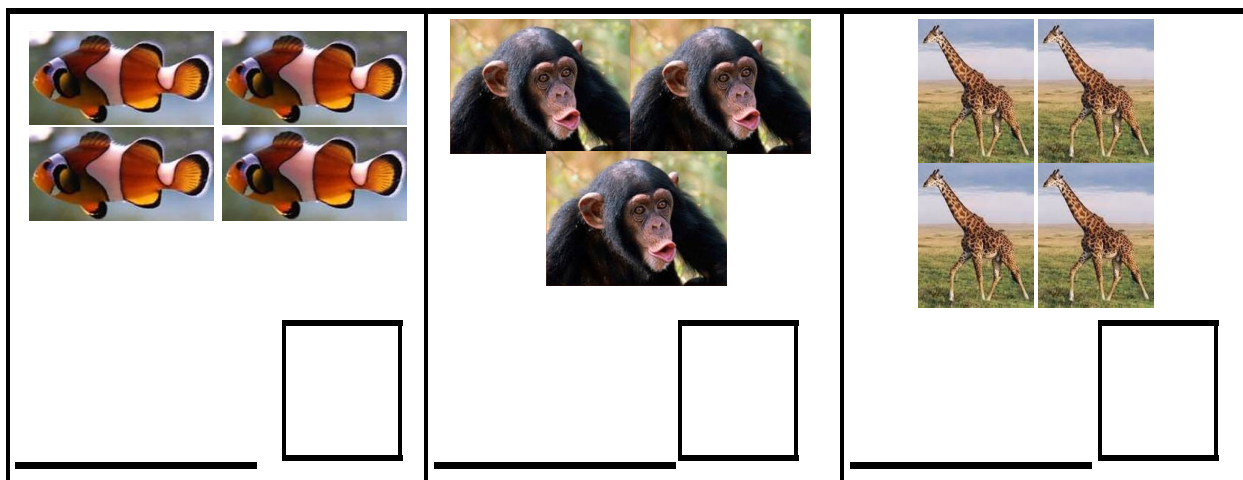
Circle 4 animals in each set.

	
---	--

Colour 4 in each set.



Write four and 4 next to the correct sets.



Draw lines from 4 to the correct sets.



5 five
Happy birthday Joel.

5 years 		five years 	5 friends 	five friends
5 presents 	five presents	5 donuts 	five donuts	

Trace and write.

5	5	5	5	5	5
5					
five					

Circle 5 in each set.

	
---	--

Circle the sets with 5.







Draw lines from 5 to the correct sets.



6 six

Joel and his daddy go to the flower shop.

<p>6 roses</p> 	<p>six roses</p> <p>6 plants</p> 
<p>6 petals</p> 	<p>six petals</p> <p>6 tools</p> 

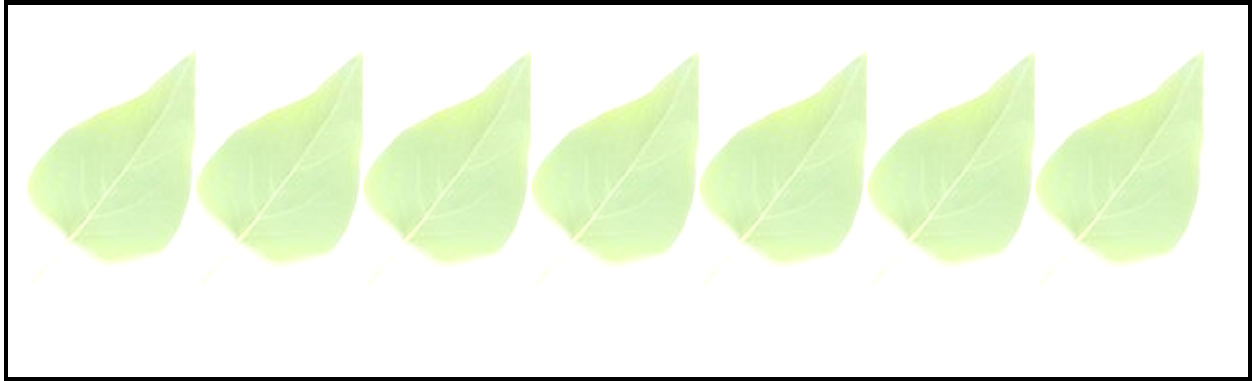
Trace and write.

6					
6					
six					

Circle 6 in each set.

	
---	--

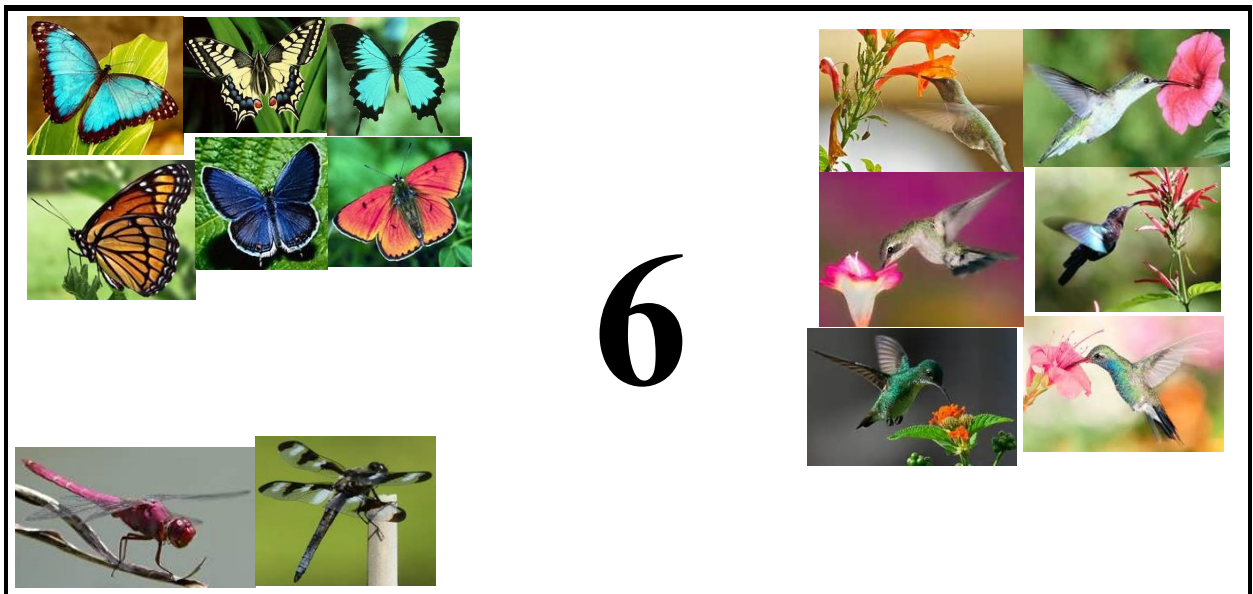
Colour 6 leaves.



Circle the set with 6.



Draw lines from 6 to the correct sets.



7 seven



Joel, Faith and daddy go to the computer store.

<p>7 laptops seven laptops</p> 	<p>7 printers seven printers</p> 
<p>7 mouse seven mouse</p> 	<p>7 tablets seven tablets</p> 





Trace and write.

7	7	7	7	7	7
7					
seven					

Colour 7 in each set.

	
---	--

Write seven and 7 next to the correct set.

 <p>seven</p>	 <p style="text-align: center; font-size: 2em;">7</p>
	

Draw lines from 7 to the correct sets.

	
	<p style="text-align: center; font-size: 4em;">7</p> 

8 eight Merry Christmas

8 reindeers eight reindeers



8 presents eight presents



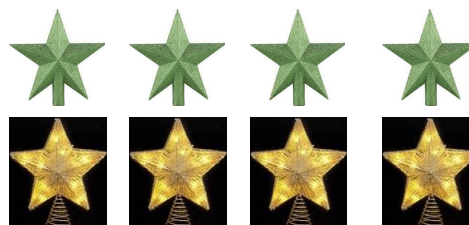
8 elves

eight elves



8 stars

eight stars









Trace and write.

8	8	8	8	8	8
8					
eight					

Circle 8 objects.



Write eight and 8 next to the correct sets.

 <p>eight 8</p>	 <p>_____ </p>	 <p>_____ </p>
 <p>_____ </p>	 <p>_____ </p>	 <p>_____ </p>

Draw lines from 8 to the correct sets.

	<h1>8</h1>	
---	------------	---

9 nine

Joel, Faith, mummy and daddy go to the grocery.

<p>9 baskets</p> 	<p>nine baskets</p> 	<p>9 trolleys</p> 	<p>nine trolleys</p> 
<p>9 bags of sugar</p> 	<p>nine bags of sugar</p> 	<p>9 oranges</p> 	<p>nine oranges</p> 

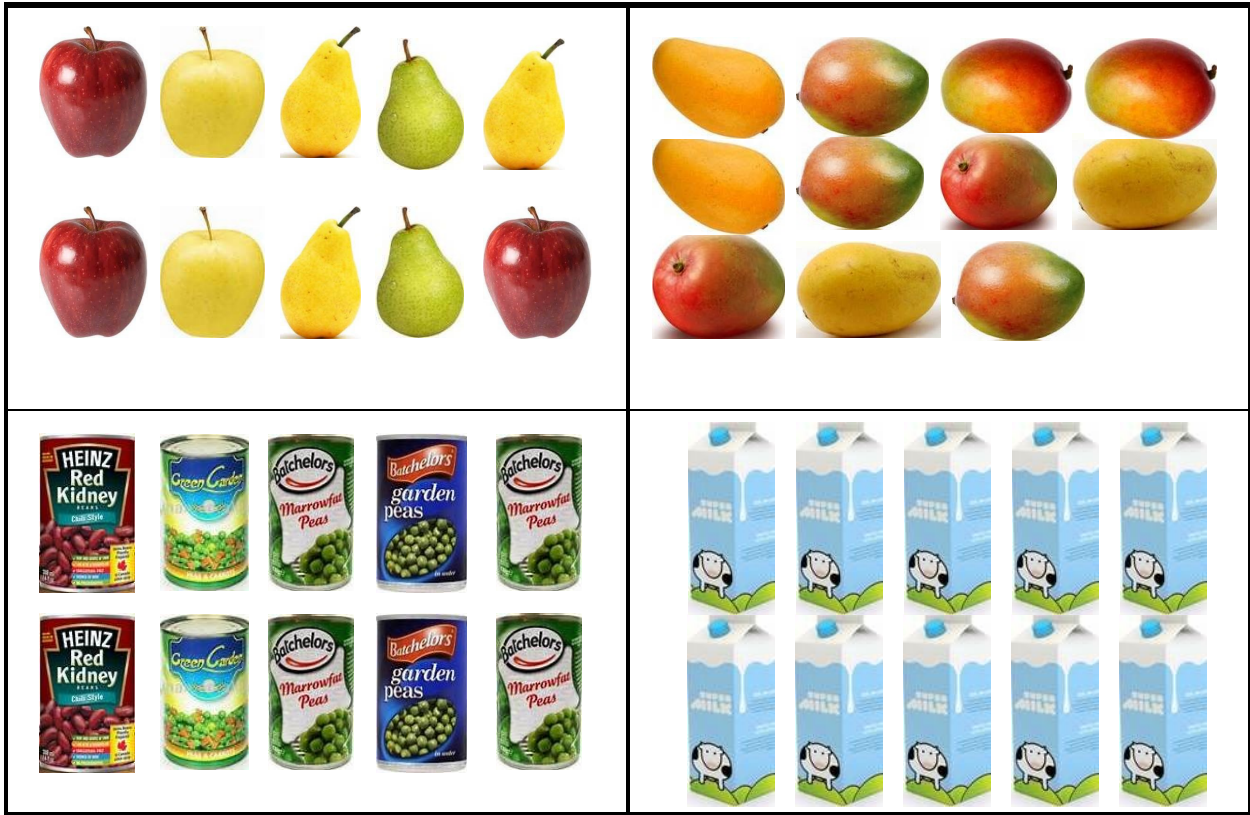
Trace and write.

9	9	9	9	9	9
9					
nine					

Help mummy get 9 smaltas. Circle 9 smaltas.





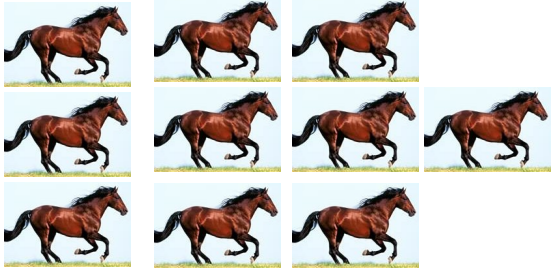
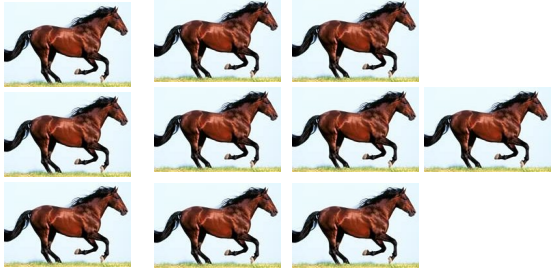
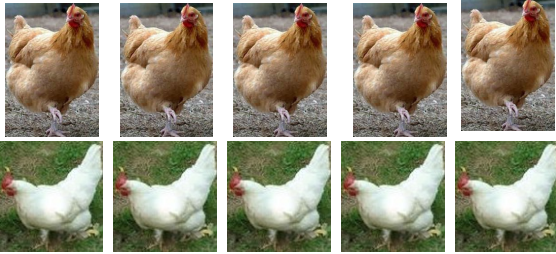
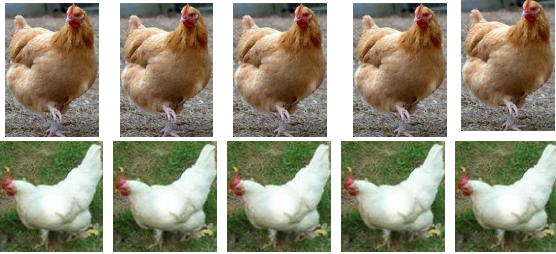
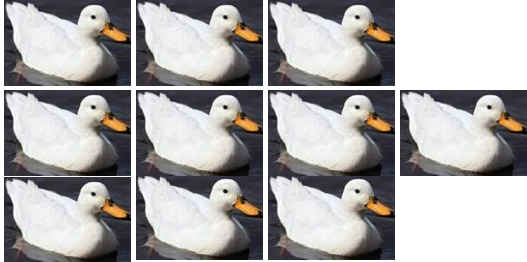
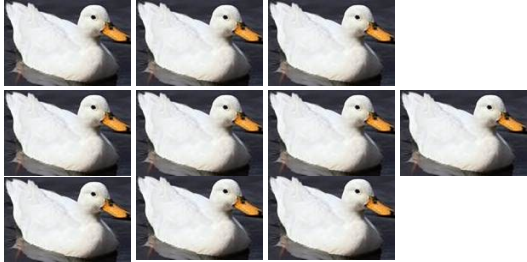
Circle 9 items in each group for mummy.



Draw lines from 9 to the correct sets.



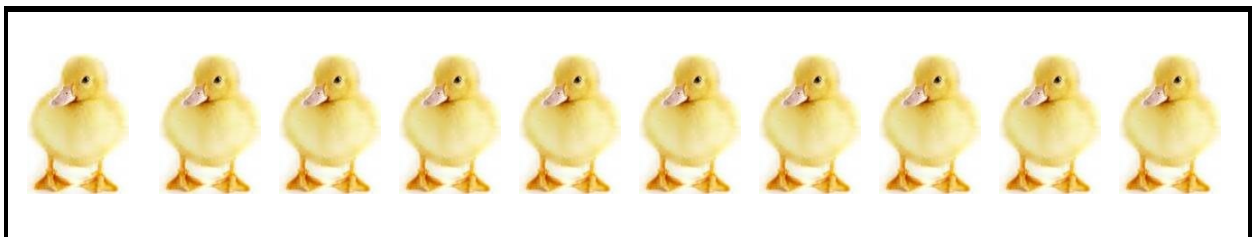
10 ten
Joel's grandfather has a farm.

<p>10 cows</p> 	<p>ten cows</p> 	<p>10 horses</p> 	<p>ten horses</p> 
<p>10 chickens</p> 	<p>ten chickens</p> 	<p>10 ducks</p> 	<p>ten ducks</p> 

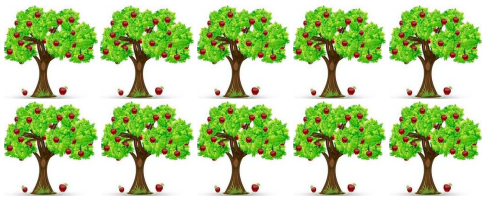
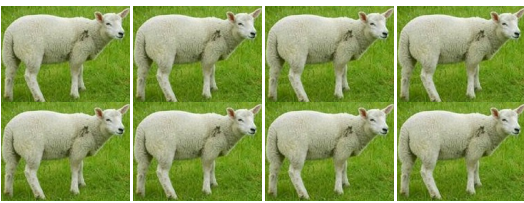


Trace and write.

10	10	10	10	10	10
10					
ten					

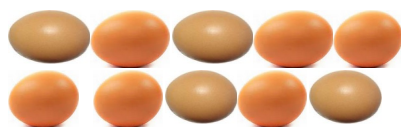




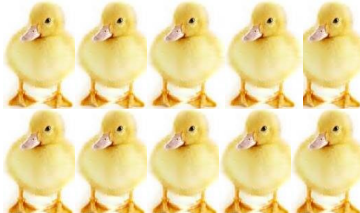


Circle 10 ducklings.




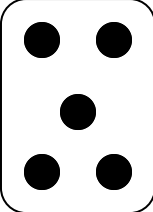

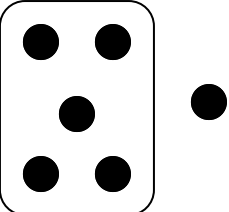

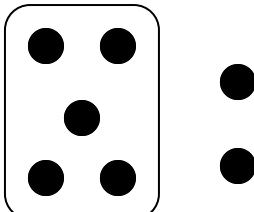

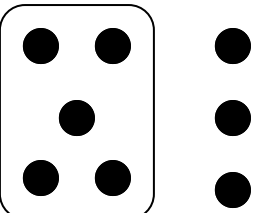

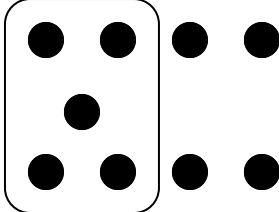

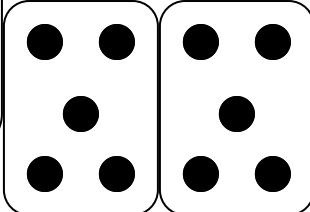
Write ten and 10 next to the correct sets.

 <input type="text"/>	 <input type="text"/>
 <input type="text"/>	 <input type="text"/>

Circle the groups with 10.

Using 5 to make 6, 7, 8, 9 and 10





<p>I have 5.</p>   <p>= 5</p>	<p>I have one more than 5.</p>   <p>= 6</p>
<p>I have two more than 5.</p>   <p>= 7</p>	<p>I have three more than 5.</p>   <p>= 8</p>
<p>I have four more than 5.</p>   <p>= 9</p>	<p>I have five more than 5.</p>   <p>= 10</p>

Money: coins





 <table border="1"> <tbody> <tr> <td>1 cent</td> </tr> <tr> <td>1 ¢</td> </tr> </tbody> </table>	1 cent	1 ¢	 <table border="1"> <tbody> <tr> <td>5 cents</td> </tr> <tr> <td>5 ¢</td> </tr> </tbody> </table>	5 cents	5 ¢	 <table border="1"> <tbody> <tr> <td>10 cents</td> </tr> <tr> <td>10 ¢</td> </tr> </tbody> </table>	10 cents	10 ¢
1 cent								
1 ¢								
5 cents								
5 ¢								
10 cents								
10 ¢								

Equivalent coins




Coins	The same as
	
	

Coins	The same as
	
	





Circle the same as (same value).







	
	

Money: dollars





								
<table border="1"> <tr> <td>1 dollar</td> </tr> <tr> <td>\$ 1</td> </tr> </table>	1 dollar	\$ 1	<table border="1"> <tr> <td>5 dollars</td> </tr> <tr> <td>\$ 5</td> </tr> </table>	5 dollars	\$ 5	<table border="1"> <tr> <td>10 dollars</td> </tr> <tr> <td>\$ 10</td> </tr> </table>	10 dollars	\$ 10
1 dollar								
\$ 1								
5 dollars								
\$ 5								
10 dollars								
\$ 10								

Equivalent dollars



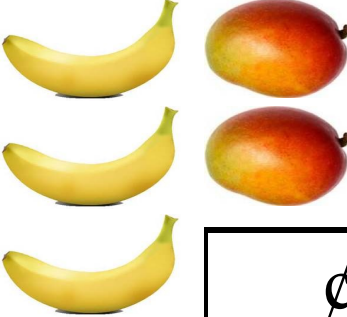



Dollars	The same as
	  

Dollars	The same as
	
	
	

Buying fruits

			
apple 5 ¢	banana 2 ¢	mango 2 ¢	orange 2 ¢






Write the cost in the box and circle the money.

 <input type="text"/> ¢	
 <input type="text"/> ¢	
 <input type="text"/> ¢	

At the grocery

			
smalta \$2	milk \$2	butter \$2	bread \$5

Write the cost in the box and circle the money.

 <div style="border: 1px solid black; width: 100px; height: 100px; margin-top: 20px; display: flex; align-items: center; justify-content: center; font-size: 2em;">\$</div>	
 <div style="border: 1px solid black; width: 100px; height: 100px; margin-top: 20px; display: flex; align-items: center; justify-content: center; font-size: 2em;">\$</div>	
 <div style="border: 1px solid black; width: 100px; height: 100px; margin-top: 20px; display: flex; align-items: center; justify-content: center; font-size: 2em;">\$</div>	

Ordinal Numbers

First, second, third and last



third second first



third second first



Joe	Jane	Tom	Mary
first	second	third	last

1. Joe is first.
2. Jane is second.
3. Tom is third.
4. Mary is last.



Ale	Arlena	Joel	Faith
first	second	third	last

1. Who is first? _____
2. Who is second?

3. Who is third?

4. Who is last?

Number Patterns

These are number patterns.

**1, 2, 3, 4, 5, 6, 7,
8, 9, 10**

Add 1 to get the next number.



2, 4, 6, 8, 10

Add 2 to get the next number.



3, 6, 9

Add 3 to get the next number.



4, 8

Add 4 to get the next number.



Circle and write the 2 missing numbers.

2, 3, _____, _____, 6	4, 5 4, 6
3, _____, _____	7, 8 6, 9
2, _____, _____, 8	4, 6 3, 4
5, _____, _____, 8, 9	6, 7 7, 8

Circle and write the next 2 numbers.

1, 2, 3, 4, _____, _____	3, 4
	5, 6
4, 5, 6, 7, _____, _____	8, 9
	7, 8
1, 3, 5, _____, _____	7, 9
	6, 7
2, 4, _____, _____	6, 8
	5, 6

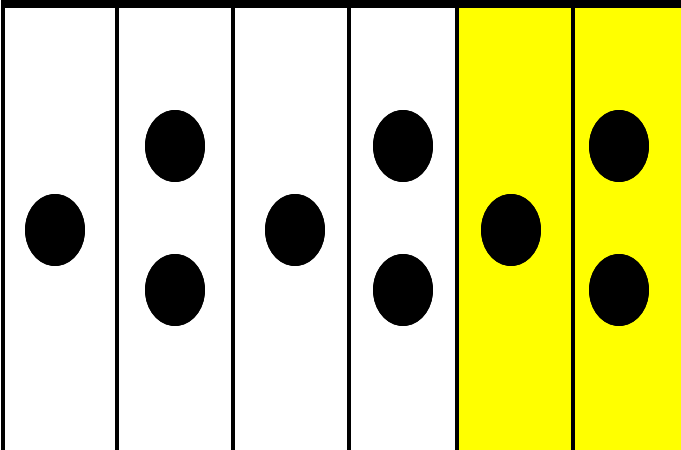
Two elements pattern

1, 2, 1, 2, 1, 2

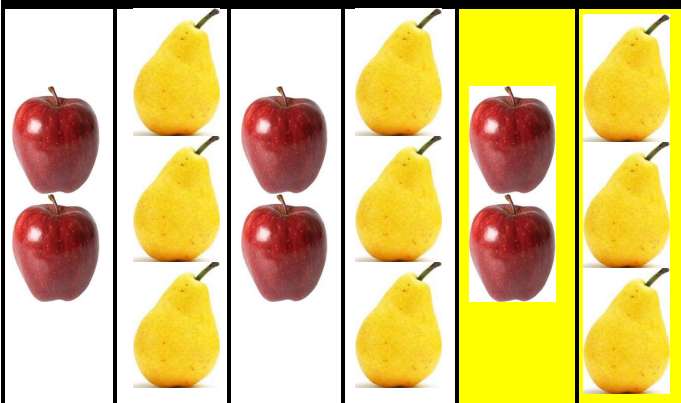
These are the next two numbers in the pattern.

3, 4, 3, 4, 3, 4

These are the next two numbers in the pattern.



These are the next dots in the pattern.



These are the next objects in the pattern.

Circle the next 2 in each.

3, 2, 3, 2, __, __

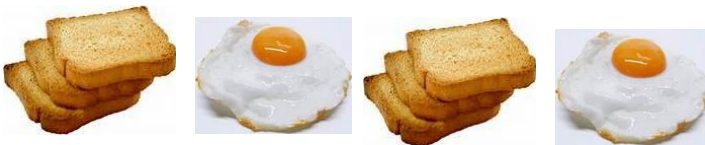
3, 2

3, 4

3, 3, 4, 4, __, __

5, 5

5, 6



Three elements pattern

1, 2, 3, 1, 2, 3

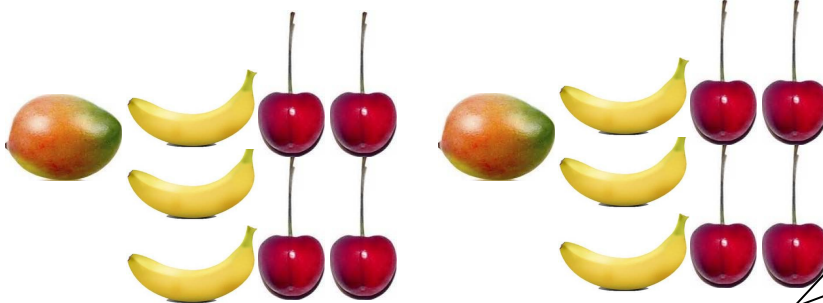
These are the next 3 numbers in the pattern.

1, 1, 1, 2, 2, 2

These are the next 3 numbers in the pattern.

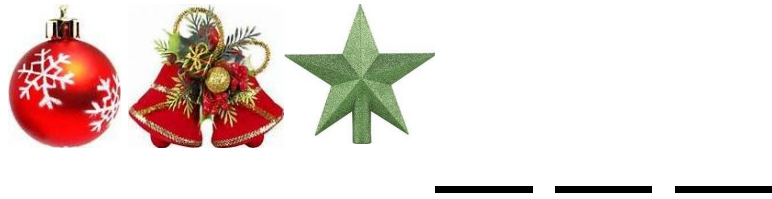



These are the next 3 objects in the pattern.


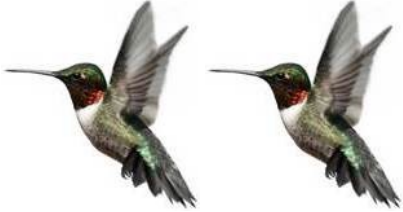


These are the next fruits in the pattern.

Circle the missing ones.



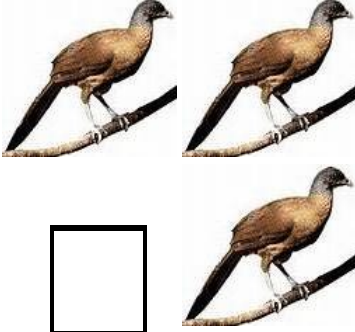
2, 3, 4, __, __, __						3, 4, 5																							
						2, 3, 4																							
1, 2, 1, __, __, __						1, 2, 1																							
						2, 3, 4																							
<table border="1"> <tbody> <tr> <td>●</td> <td>● ● ●</td> <td>● ● ● ●</td> <td></td> <td></td> <td></td> </tr> <tr> <td>●</td> <td>● ● ●</td> <td>● ● ● ●</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						●	● ● ●	● ● ● ●				●	● ● ●	● ● ● ●				<table border="1"> <tbody> <tr> <td>●</td> <td>● ● ●</td> <td>● ● ● ●</td> </tr> <tr> <td>● ●</td> <td>● ● ●</td> <td>● ● ● ●</td> </tr> </tbody> </table>						●	● ● ●	● ● ● ●	● ●	● ● ●	● ● ● ●
●	● ● ●	● ● ● ●																											
●	● ● ●	● ● ● ●																											
●	● ● ●	● ● ● ●																											
● ●	● ● ●	● ● ● ●																											
																													

Addition: and

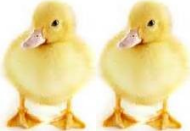
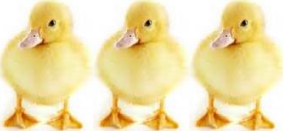
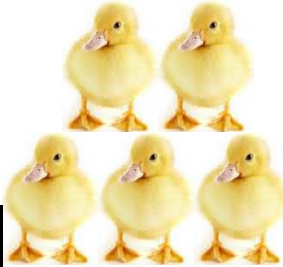



and is


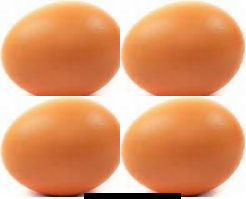
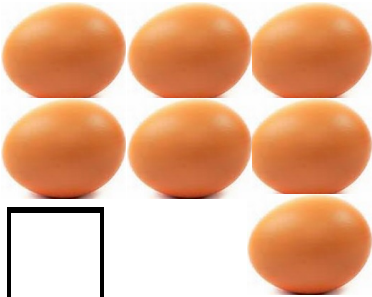
Write the numbers in the boxes.

and is






and is


and is

How many altogether




and is altogether


Write the numbers in the boxes.



and is altogether




and is altogether



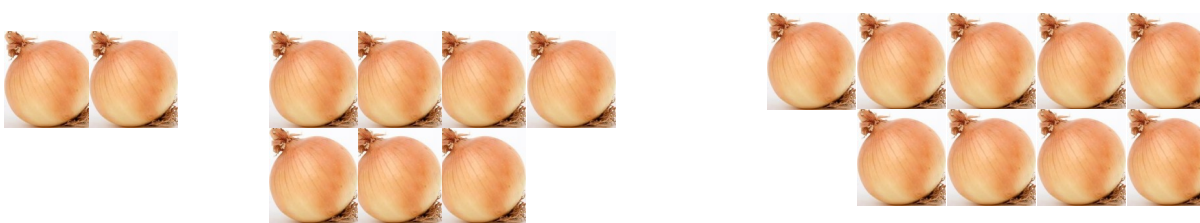
and is altogether

In all




3 and **3** is **6** in all


Write the numbers in the boxes.



and is in all



and is in all



and is in all

Equals

5 and 3 equals 8


Write the numbers in the boxes.

and equals

and equals

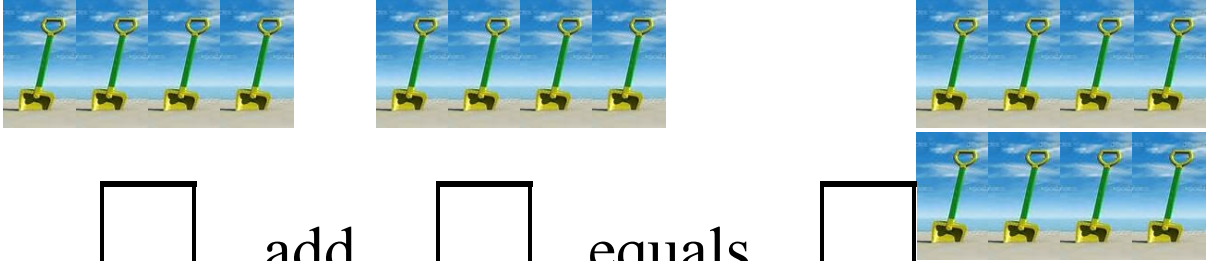
and equals

Add

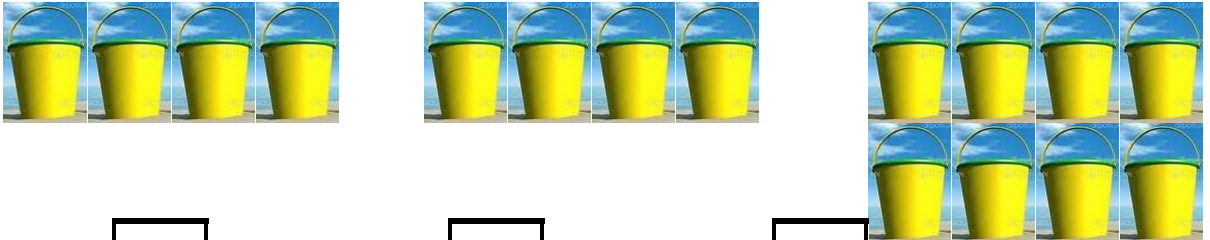


3 add **7** equals **10**


Write the numbers in the boxes.



add equals



add equals



add equals

Plus

4 plus 3 equals 7

Write the numbers in the boxes.

plus equals

plus equals

plus equals

Total

2 plus 5 equals 7 TOTAL

Write the numbers in the boxes.

plus equals TOTAL

plus equals TOTAL

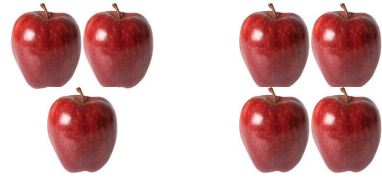
plus equals TOTAL

Sum

Find the sum of 3 and 4.



I have 3
apples
and 4
apples.



1, 2, 3, 4, 5, 6, 7



The sum of

5

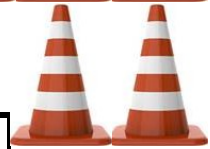
and

3

is

8

Write the numbers in the boxes.



The sum of

and

is




The sum of

and

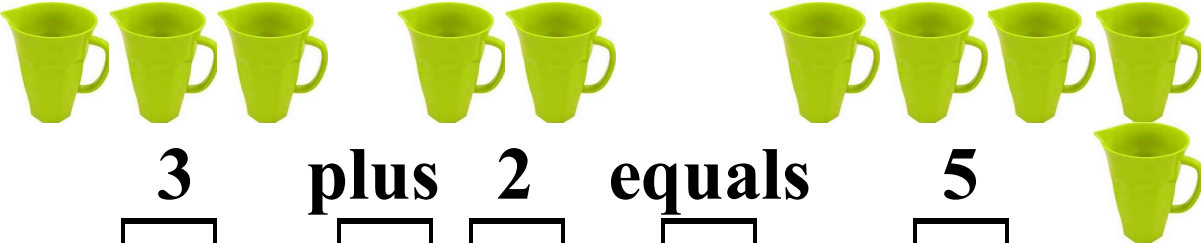
is

+ and = signs




4 plus 3 equals 7

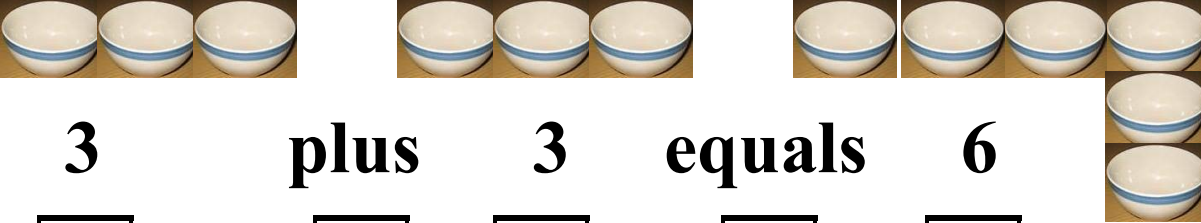
Complete the boxes.



3 plus 2 equals 5


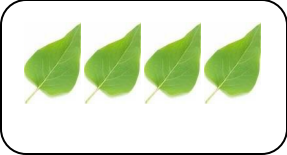
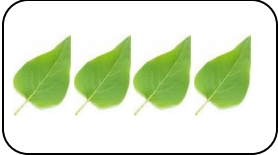


2 plus 3 equals 5



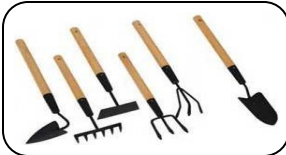


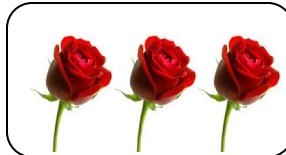





3 plus 3 equals 6

Addition with Zero


				
zero	add	4	equals	4
<input type="text" value="0"/>	<input type="text" value="+"/>	<input type="text" value="4"/>	<input type="text" value="="/>	<input type="text" value="4"/>

Complete the boxes.

				
6	add	zero	equals	6
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
				
zero	add	3	equals	3
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
				
2	add	0	equals	2
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Adding vertically

We can do this with marbles or dots.



$$\begin{array}{r} 2 \\ + 3 \\ \hline \\ \hline \end{array}$$

2 plus 3 equals 5.

Use dots or marbles to do these.

$\begin{array}{r} 3 \\ + 7 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 8 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 8 \\ + 2 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 0 \\ + 8 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 5 \\ + 0 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 9 \\ + 0 \\ \hline \\ \hline \end{array}$

$$\begin{array}{r} 1 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$


$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 0 \\ \hline \end{array}$$

Adding horizontally

We can do this with marbles or dots.

$2 + 3 = \boxed{5}$
 ●● ●●●



2 plus 3 equals 5.

Use dots or marbles to do these.

$3 + 4 = \square$	$4 + 3 = \square$
$5 + 5 = \square$	$0 + 9 = \square$
$4 + 5 = \square$	$7 + 2 = \square$

$8 + 0 = \square$

$6 + 4 = \square$

$5 + 2 = \square$

$5 + 4 = \square$

$9 + 1 = \square$





$8 + 0 = \square$

$10 + 0 = \square$





$1 + 7 = \square$

Addition with money



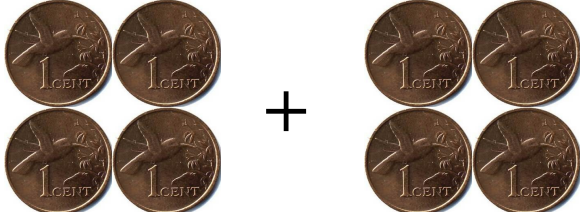
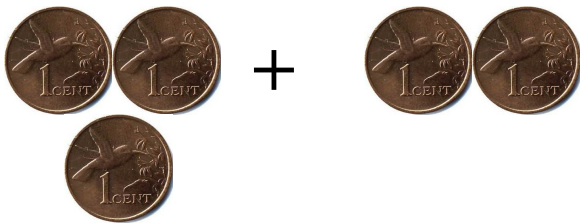
Complete the boxes.

 <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">9 ¢</div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;">9 cents</div> </div>	 <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">10 ¢</div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;">10 cents</div> </div>
 <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">\$8</div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;">8 dollars</div> </div>	 <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">\$10</div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;">10 dollars</div> </div>



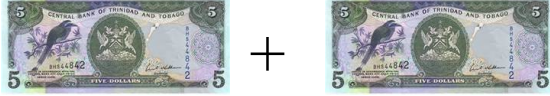

Add these

 = <div style="border: 1px solid black; padding: 5px; display: inline-block;">6 ¢</div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center; margin-top: 10px;">6 cents</div> <p>1 cent add 5 cents is 6 cents</p>	 = <div style="border: 1px solid black; padding: 5px; display: inline-block;">8 ¢</div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center; margin-top: 10px;">8 cents</div>
 <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">\$2</div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;">2 dollars</div> </div>	 <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">\$7</div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;">7 dollars</div> </div>

Complete the boxes.

 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <input type="text" value="¢"/> <input type="text"/> </div> <div style="text-align: center;"> <input type="text" value="¢"/> </div> <div style="text-align: center;"> <input type="text"/> <input type="text" value="¢"/> <input type="text" value="cents"/> </div> </div>
 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <input type="text" value="¢"/> <input type="text"/> </div> <div style="text-align: center;"> <input type="text" value="¢"/> <input type="text"/> <input type="text" value="cents"/> </div> </div>
 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <input type="text" value="¢"/> <input type="text"/> </div> <div style="text-align: center;"> <input type="text" value="¢"/> <input type="text"/> </div> <div style="text-align: center;"> <input type="text" value="¢"/> <input type="text" value="cents"/> </div> </div>
 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <input type="text" value="¢"/> <input type="text"/> </div> <div style="text-align: center;"> <input type="text" value="¢"/> <input type="text"/> </div> <div style="text-align: center;"> <input type="text" value="¢"/> <input type="text" value="cents"/> </div> </div>

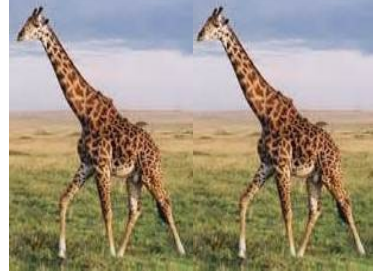
Complete the boxes.

	$=$	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 100px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">dollars</div>		
<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 100px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">dollars</div>
	$=$	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 100px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">dollars</div>		
<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 100px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">dollars</div>
	$=$	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 100px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">dollars</div>		
<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 100px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">dollars</div>
	$=$	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 100px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">dollars</div>		
<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$</div>	<div style="border: 1px solid black; width: 100px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">dollars</div>

Number stories

At the zoo

Our zoo had no giraffe.
Last year two giraffes came.
Now we have _____ giraffes.



At the farm

Joel collected four eggs.
Faith collected five eggs.
They have a **total** of _____ eggs.



Money

Mummy gave Joel three dollars.
Daddy gave Faith three dollars.
They both have _____ dollars
in all.

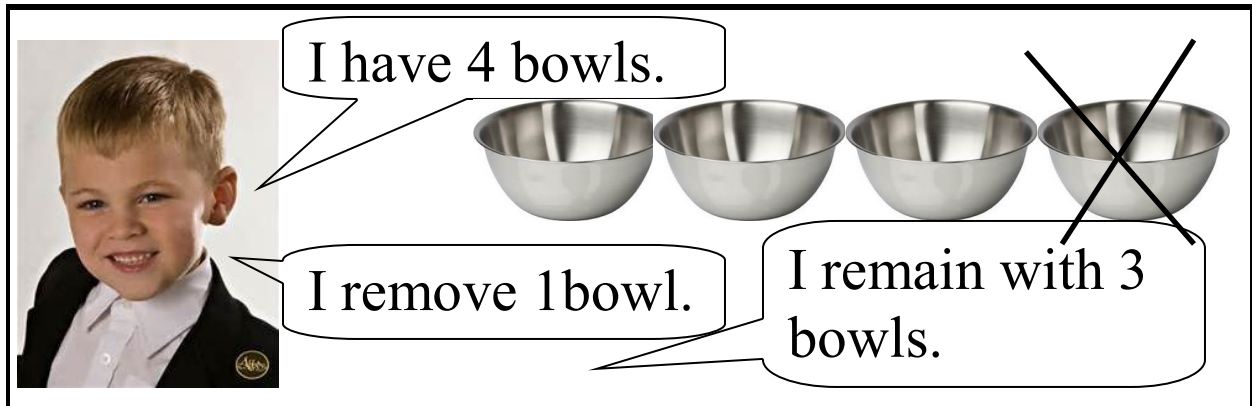


Christmas

Joel got four gifts.
Faith got four gifts.
They have equal number of gifts.



Subtraction: remove and remain

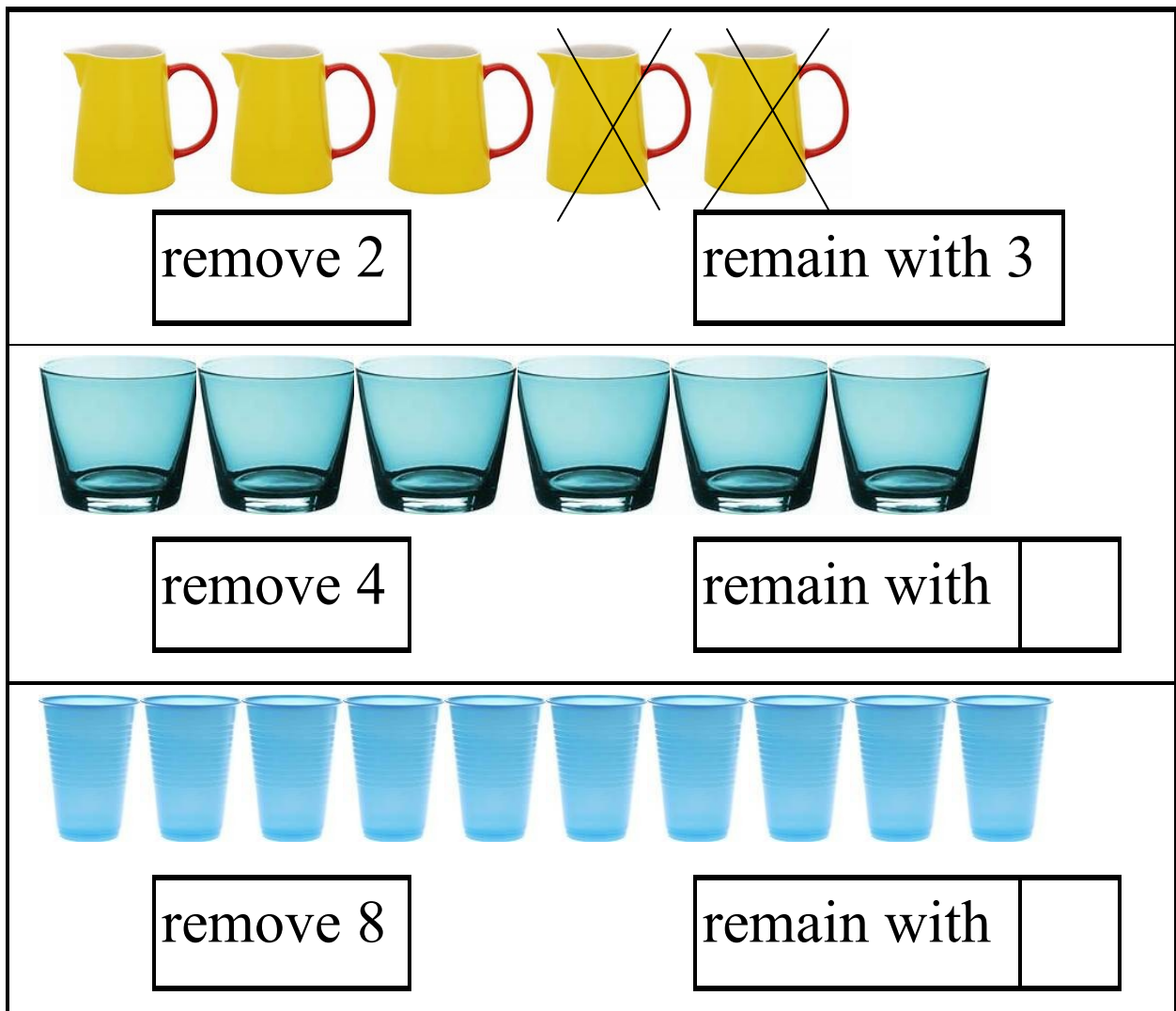


I have 4 bowls.

I remove 1 bowl.

I remain with 3 bowls.

Write the number in the boxes.



remove 2

remain with 3

remove 4

remain with

remove 8

remain with

Write the number in the boxes



remove 4

remain with



remove 7

remain with



remove 3


remain with



remove 4


remain with

Take away

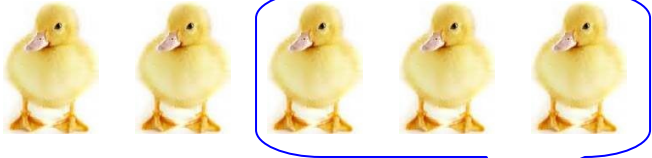


2 take away **1** is **1**

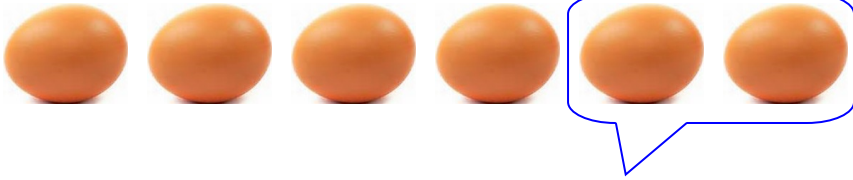
Write the numbers in the boxes.



3 take away **2** is

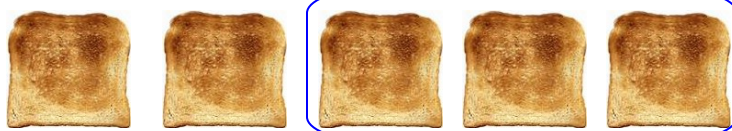


5 take away **3** is



6 take away **2** is

Take away



5 take away **3** is



9 take away **5** is

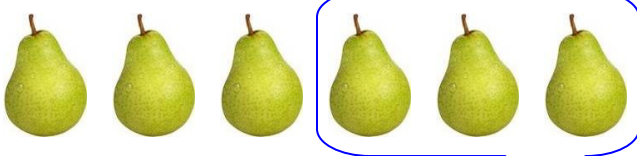


7 take away **2** is




9 take away **4** is

Leaves




take away leaves


Write the numbers in the boxes.



take away leaves







take away leaves




take away leaves

Leaves

Write the numbers in the boxes.


 <p><input type="text"/> take away <input type="text"/> leaves <input type="text"/></p>
 <p><input type="text"/> take away <input type="text"/> leaves <input type="text"/></p>
 <p><input type="text"/> take away <input type="text"/> leaves <input type="text"/></p>
 <p><input type="text"/> take away <input type="text"/> leaves <input type="text"/></p>

Minus and equals




10 minus **7** equals **3**


Write the numbers in the boxes.



minus equals



minus equals



minus equals

Minus and equals



minus

equals



minus

equals



minus


equals



minus


equals

Subtract




7 subtract 5 equals 2


Write the numbers in the boxes.



subtract equals








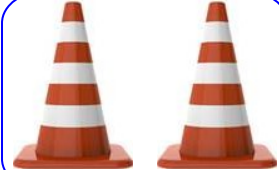


subtract equals




subtract equals

Subtract

Write the numbers in the boxes.


		
<input type="text"/>	subtract	<input type="text"/> equals <input type="text"/>
		
<input type="text"/>	subtract	<input type="text"/> equals <input type="text"/>
		
<input type="text"/>	subtract	<input type="text"/> equals <input type="text"/>
		
<input type="text"/>	subtract	<input type="text"/> equals <input type="text"/>

- and = signs




7 minus 3 equals 4


Complete the boxes.



5 minus 2 equals 3

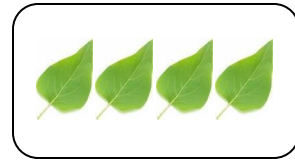
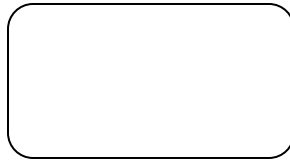
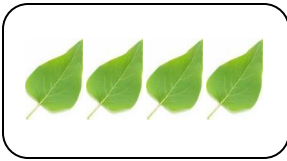


5 minus 3 equals 2



6 minus 3 equals 3

Subtraction with Zero: complete the boxes.



4 minus 0 equals 4

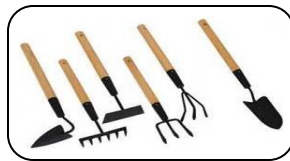
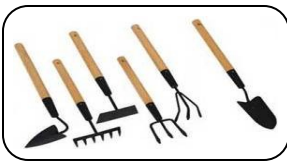
4

-

0

=

4



6 minus 6 equals 0

□

□

□

□

□



3 minus 0 equals 3

□

□

□

□

□



2 minus 2 equals 0

□

□


□

□

□

Subtracting vertically

We can do this with marbles or dots.

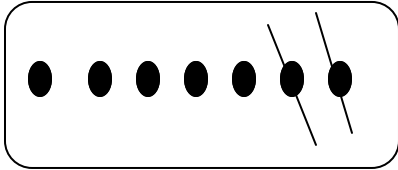
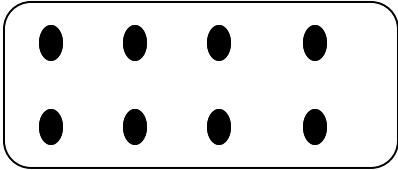
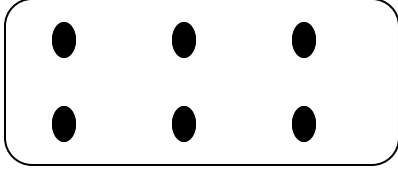
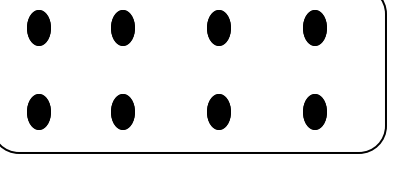
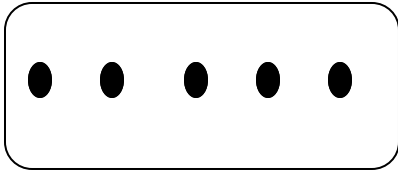
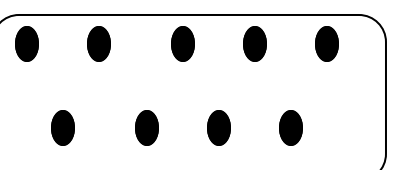


$$\begin{array}{r} 3 \\ - 2 \\ \hline 1 \end{array}$$

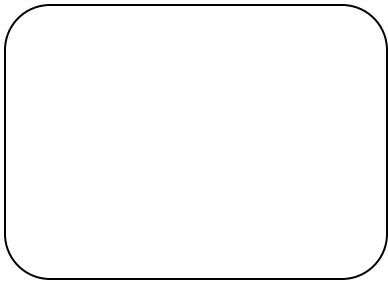
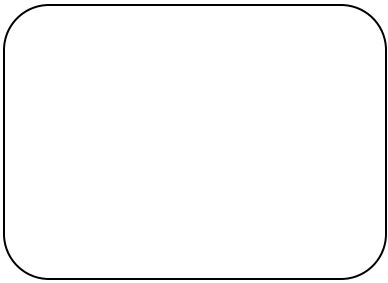
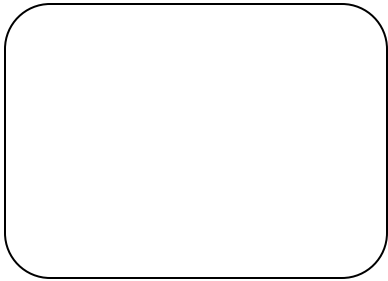
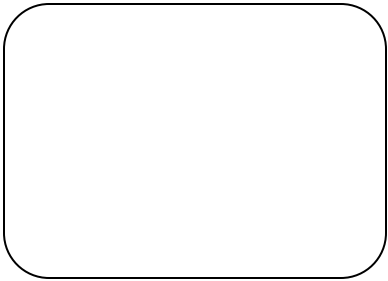
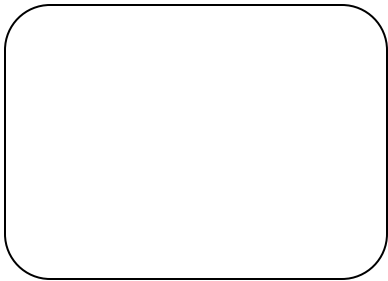
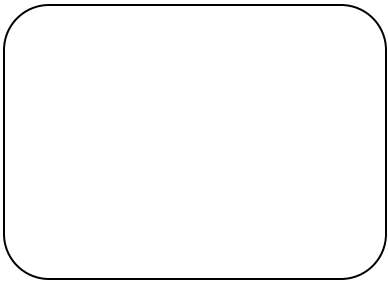
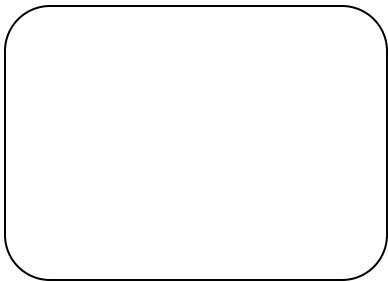
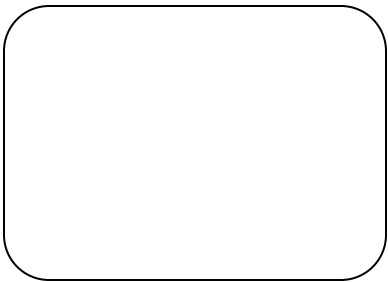
Cross out 2 to subtract 2.

3 subtract 2 is 1

Cross out dots to do these.

$\begin{array}{r} 7 \\ - 2 \\ \hline \\ \hline \end{array}$ 	$\begin{array}{r} 8 \\ - 2 \\ \hline \\ \hline \end{array}$ 
$\begin{array}{r} 6 \\ - 3 \\ \hline \\ \hline \end{array}$ 	$\begin{array}{r} 8 \\ - 0 \\ \hline \\ \hline \end{array}$ 
$\begin{array}{r} 5 \\ - 1 \\ \hline \\ \hline \end{array}$ 	$\begin{array}{r} 9 \\ - 5 \\ \hline \\ \hline \end{array}$ 

Draw dots and do these.

$\begin{array}{r} 9 \\ - 2 \\ \hline \\ \hline \end{array}$ 	$\begin{array}{r} 6 \\ - 4 \\ \hline \\ \hline \end{array}$ 
$\begin{array}{r} 7 \\ - 3 \\ \hline \\ \hline \end{array}$ 	$\begin{array}{r} 8 \\ - 1 \\ \hline \\ \hline \end{array}$ 
$\begin{array}{r} 7 \\ - 6 \\ \hline \\ \hline \end{array}$ 	$\begin{array}{r} 5 \\ - 5 \\ \hline \\ \hline \end{array}$ 
$\begin{array}{r} 8 \\ - 6 \\ \hline \\ \hline \end{array}$ 	$\begin{array}{r} 7 \\ - 0 \\ \hline \\ \hline \end{array}$ 


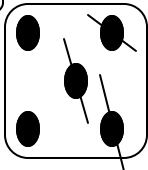
Subtracting horizontally

We can do this with marbles or dots.

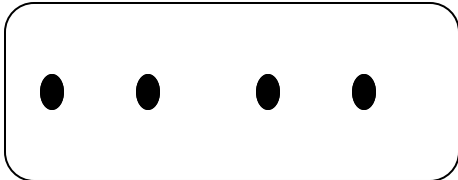
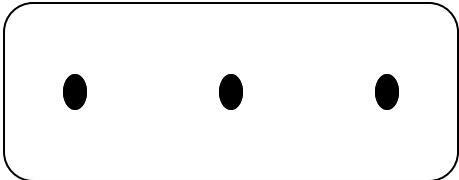
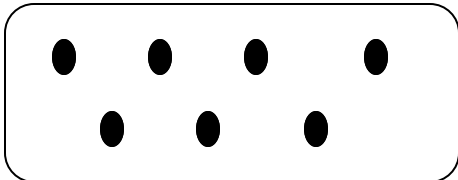
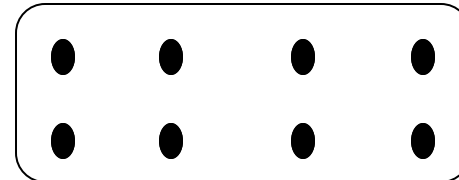
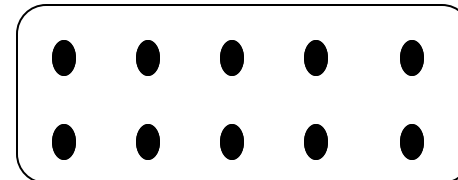
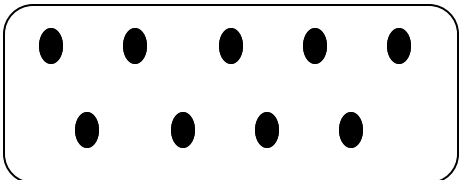
$5 - 3 = \boxed{2}$

Make 5 dots and cross out 3.





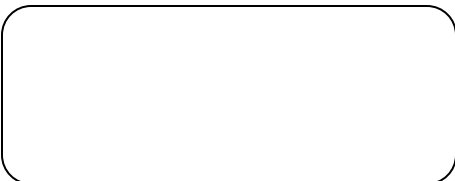
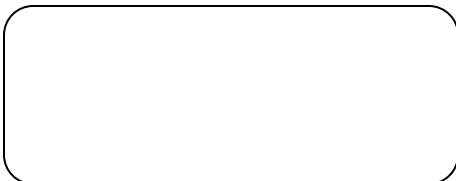


5 subtract 3 equals 2





Cross out dots to do these.

$4 - 1 = \square$ 	$3 - 2 = \square$ 
$7 - 3 = \square$ 	$8 - 4 = \square$ 
$10 - 6 = \square$ 	$9 - 5 = \square$ 



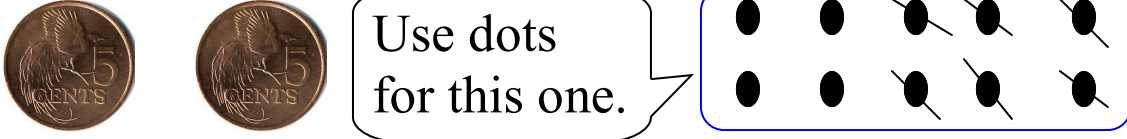
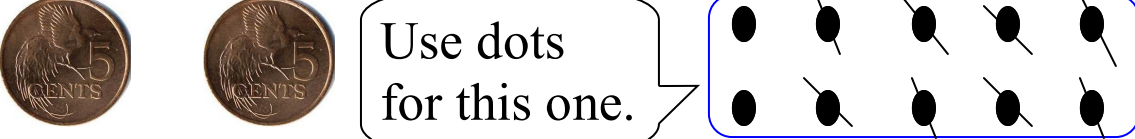
Draw dots and do these.

$8 - 3 = \square$ 	$6 - 4 = \square$ 
$5 - 1 = \square$ 	$5 - 4 = \square$ 
$9 - 8 = \square$ 	$8 - 8 = \square$ 
$10 - 10 = \square$ 	$6 - 3 = \square$ 


Subtraction with money


				
10 cents	-	6 cents	=	4 cents
10 ¢	-	6 ¢	=	4 ¢
				
10 cents	-	4 cents	=	6 cents
10 ¢	-	4 ¢	=	6 ¢
				
9 dollars	-	4 dollars	=	5 dollars
\$ 9	-	\$ 4	=	\$ 5
				
10 dollars	-	5 dollars	=	5 dollars
\$ 10	-	\$ 5	=	\$ 5


Complete the boxes.

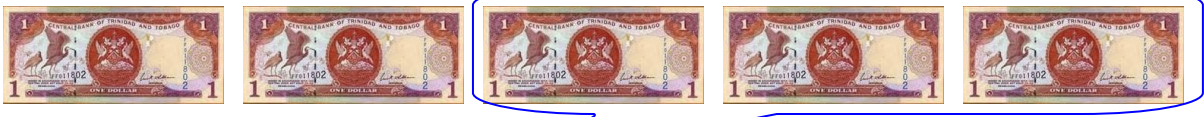
										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">cents</td> <td style="width: 10%; text-align: center;">-</td> <td style="width: 25%; text-align: center;">cents</td> <td style="width: 10%; text-align: center;">=</td> <td style="width: 30%; text-align: center;">cents</td> </tr> <tr> <td style="text-align: center;">¢</td> <td style="text-align: center;">-</td> <td style="text-align: center;">¢</td> <td style="text-align: center;">=</td> <td style="text-align: center;">¢</td> </tr> </table>	cents	-	cents	=	cents	¢	-	¢	=	¢
cents	-	cents	=	cents						
¢	-	¢	=	¢						
										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">cents</td> <td style="width: 10%; text-align: center;">-</td> <td style="width: 25%; text-align: center;">cents</td> <td style="width: 10%; text-align: center;">=</td> <td style="width: 30%; text-align: center;">cents</td> </tr> <tr> <td style="text-align: center;">¢</td> <td style="text-align: center;">-</td> <td style="text-align: center;">¢</td> <td style="text-align: center;">=</td> <td style="text-align: center;">¢</td> </tr> </table>	cents	-	cents	=	cents	¢	-	¢	=	¢
cents	-	cents	=	cents						
¢	-	¢	=	¢						
										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">cents</td> <td style="width: 10%; text-align: center;">-</td> <td style="width: 25%; text-align: center;">6 cents</td> <td style="width: 10%; text-align: center;">=</td> <td style="width: 30%; text-align: center;">cents</td> </tr> <tr> <td style="text-align: center;">¢</td> <td style="text-align: center;">-</td> <td style="text-align: center;">¢</td> <td style="text-align: center;">=</td> <td style="text-align: center;">¢</td> </tr> </table>	cents	-	6 cents	=	cents	¢	-	¢	=	¢
cents	-	6 cents	=	cents						
¢	-	¢	=	¢						
										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">cents</td> <td style="width: 10%; text-align: center;">-</td> <td style="width: 25%; text-align: center;">8 cents</td> <td style="width: 10%; text-align: center;">=</td> <td style="width: 30%; text-align: center;">cents</td> </tr> <tr> <td style="text-align: center;">cents</td> <td style="text-align: center;">-</td> <td style="text-align: center;">¢</td> <td style="text-align: center;">=</td> <td style="text-align: center;">¢</td> </tr> </table>	cents	-	8 cents	=	cents	cents	-	¢	=	¢
cents	-	8 cents	=	cents						
cents	-	¢	=	¢						

Complete the boxes.

				
dollars	-	dollars	=	dollars
\$	-	\$	=	\$

				
dollars	-	dollars	=	dollars
\$	-	\$	=	\$

				
dollars	-	dollars	=	dollars
\$	-	\$	=	\$

				
dollars	-	dollars	=	dollars
\$	-	\$	=	\$

Number stories

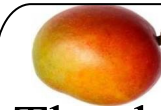
Garbage

Five empty milk packs.
Joel puts them in the bin.
Now there is none.



Sharing

Joel has two mangoes.
He **gives** Faith one mango.
He is **left** with _____ mango.



Thank
you
Joel.



Mummy has four pears.
She **gives** Joel one.
She **gives** Faith one.
She **gives** daddy one.
She **remains** with _____.



Joel



Faith



Daddy



Mummy

Subtracting



I have \$3



I **subtract** \$2.
Now I have \$1.




Mental Mathematics

Using the number line instead of dots and marbles


We can use the number line to add or subtract.

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----


← backward
Add means to go **forward**.
Subtract means to go **backward**.
→ forward


$3 + 1$

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----


Start by 3. Add 1 means to go 1 place **forward**.
 $= 4$


$2 + 5$

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----


Start by 2. Add 5 means to go 5 places **forward**.
 $= 7$

$9 - 6$

0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----


Start by 9. Subtract 6 means to go 6 places **backward**.
 $= 3$

Do these.

$2 + 8$



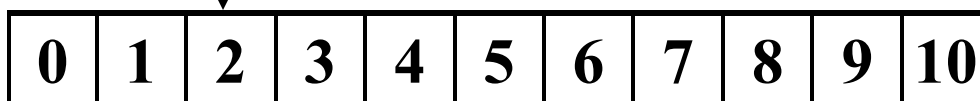
Start by 2. Add 8 means to go 8 places **forward**.

$8 - 2$



Start by 8. Subtract 2 means to go 2 places **backward**.

$2 + 6$



Start by 2. Add 6 means to go 6 places **forward**.

$6 - 2$



Start by 6. Subtract 2 means to go 2 places **backward**.

Do these.

$4 + 4$



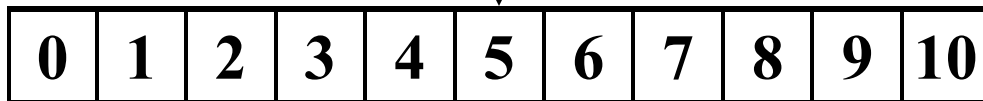
$=$

$4 - 4$



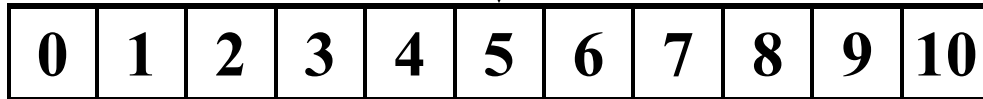
$=$

$5 + 5$



$=$

$5 - 5$



$=$

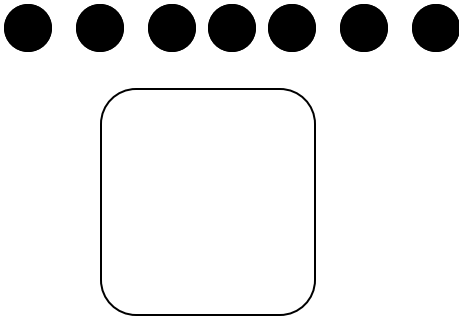
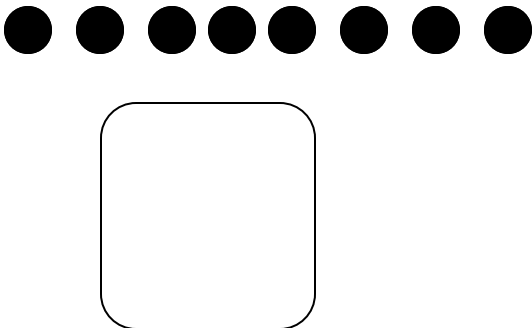
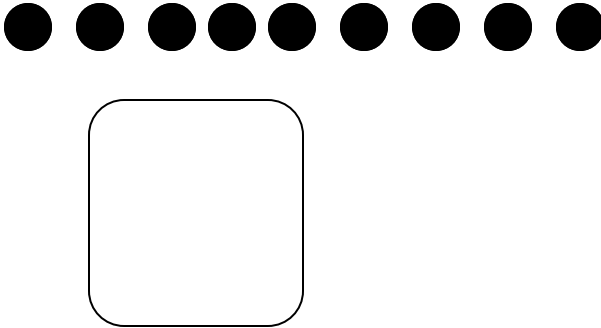
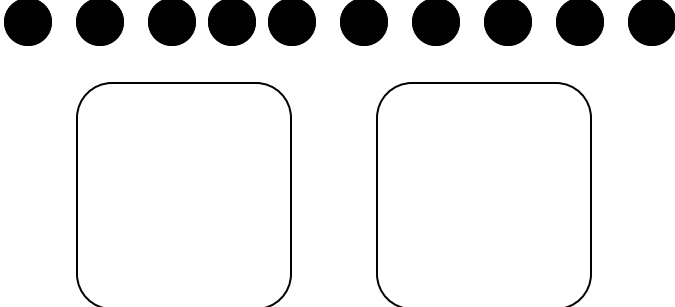
Groups of five for easier addition

<p>How many do I have?</p>		$5 + 1 = 6$
	<p>Make a group of 5.</p>	
<p>How many do I have?</p>		$5 + 2 = 7$
	<p>Make a group of 5.</p>	

Do these.


	$+ =$
	$+ =$

Do these.

	$+$ $=$
	$+$ $=$
	$+$ $=$
	$+$ $=$

VOCABULARY FOR NUMBERS

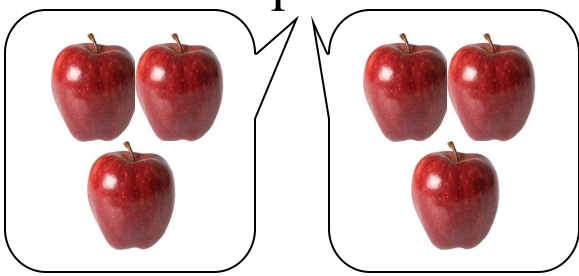
same



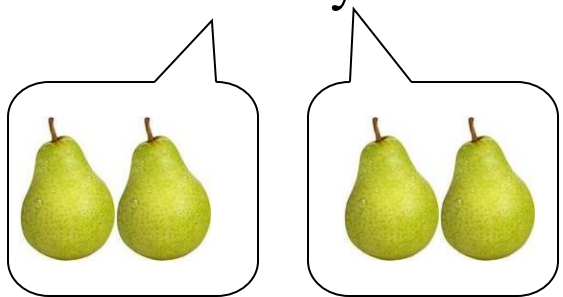
different



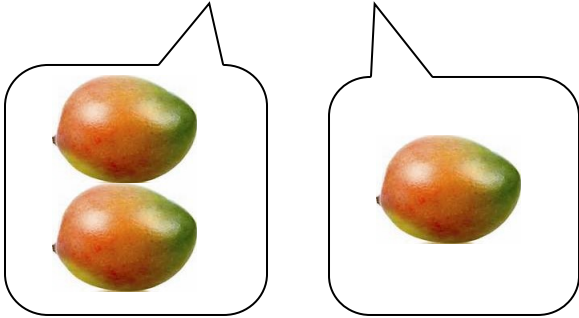
equal



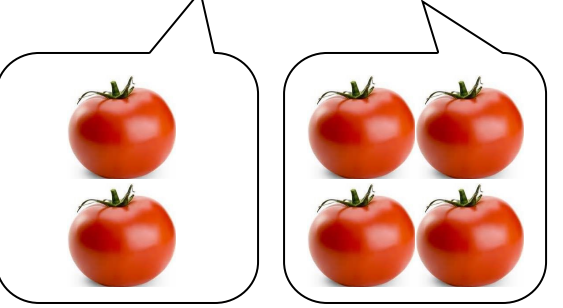
as many as



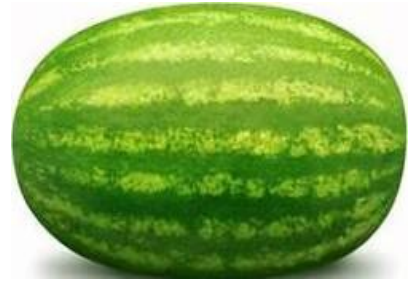
more than/less than



less than/more than



one 1



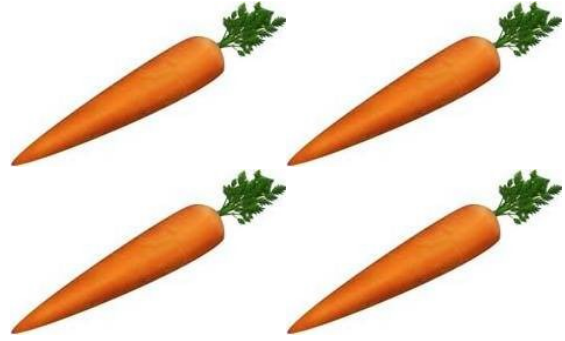
two 2



three 3



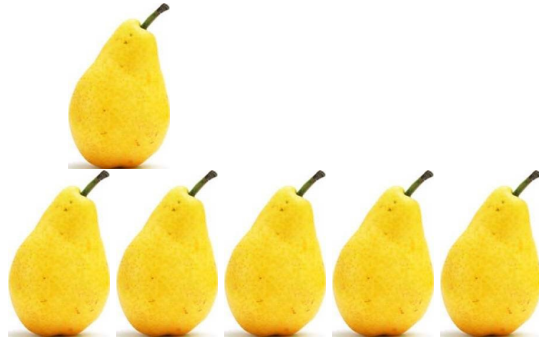
four 4



five 5



six 6



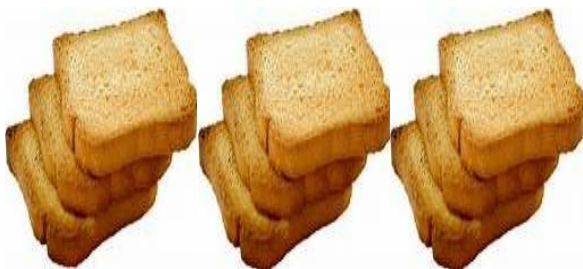
seven 7



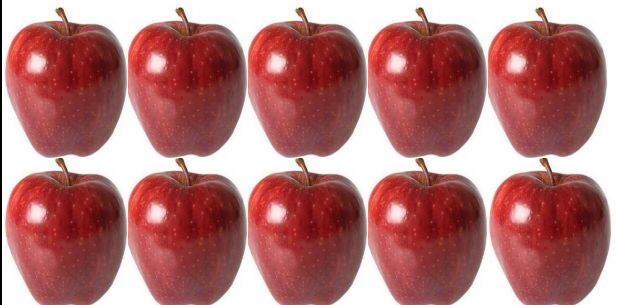
eight 8



nine 9



ten 10



join



Joel joins Faith to watch TV. Now there is 2.



2


altogether




1 2 3 4

There is 4 **altogether**.

add



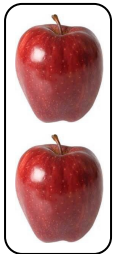
add



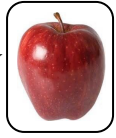
1 add 2

1 add 2 is 3

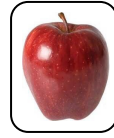
take away



take away



is




2 take away 1 is 1

$2 - 1 = 1$


left

I have




I shared with Faith, mummy and daddy.

I am **left** with




remain





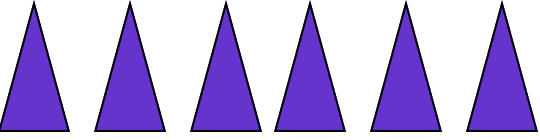



I have



I shared with Faith, mummy and daddy.

I **remain** with



<p>guess</p> <p>Guess how many </p> <p> 3</p> <p> No I have 2</p>	<p>before</p> <p>1, 2</p> <p>I am before.</p> <p>I am after.</p>
<p>after</p> <p>7, 8</p> <p>I am before.</p> <p>I am after.</p>	<p>between</p> <p>I am between Faith and mummy.</p> 
<p>repeating unit</p>  <p>This is a pattern of triangles. The repeating unit is a triangle.</p> 	<p>repeating unit</p>  <p>This is a pattern of milk boxes. The repeating unit is a box.</p> 



buy



Mummy **buys** fruits at the market.

sells



The lady **sells** carrots.

spends





Mummy **spends** money at the grocery.

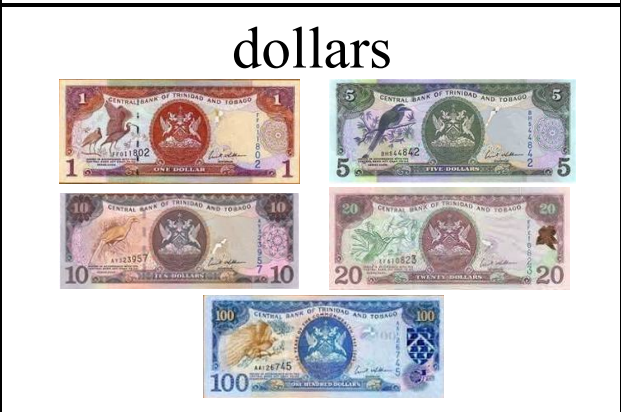
how much



How **much** do I have?




More than me

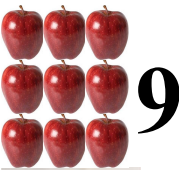
some




I have **some** apples.



few


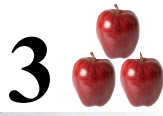


I have **few** apples.




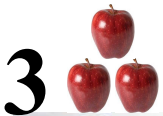
many

I have **many** apples.


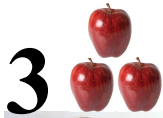
more

I have **more** apples.



most

I have the **most** apples.

least



I have the **least** number of apples.

Number 9



number

Number 3

count

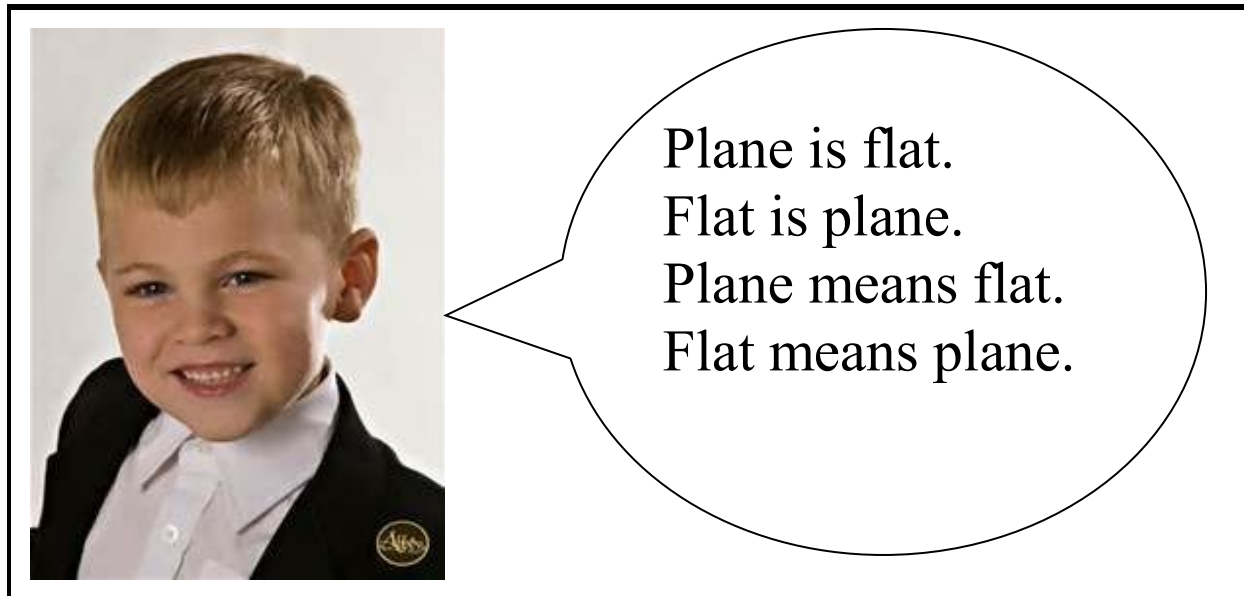
1, 2, 3. I have 3 apples.

GEOMETRY

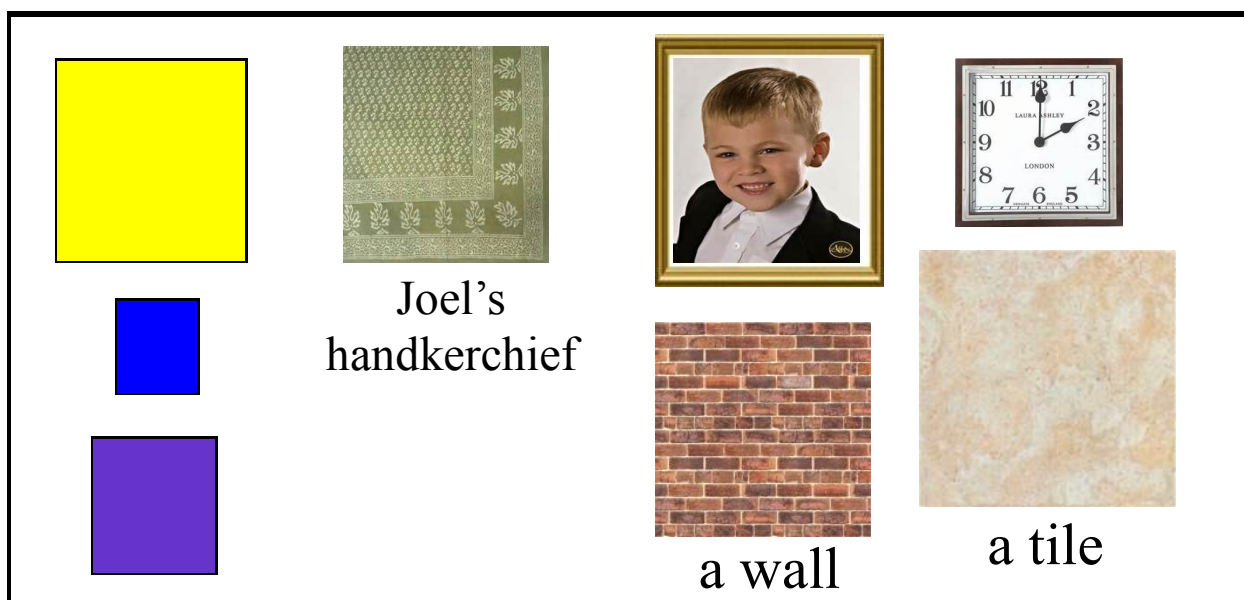
Plane shapes

Joel says a poem in class.

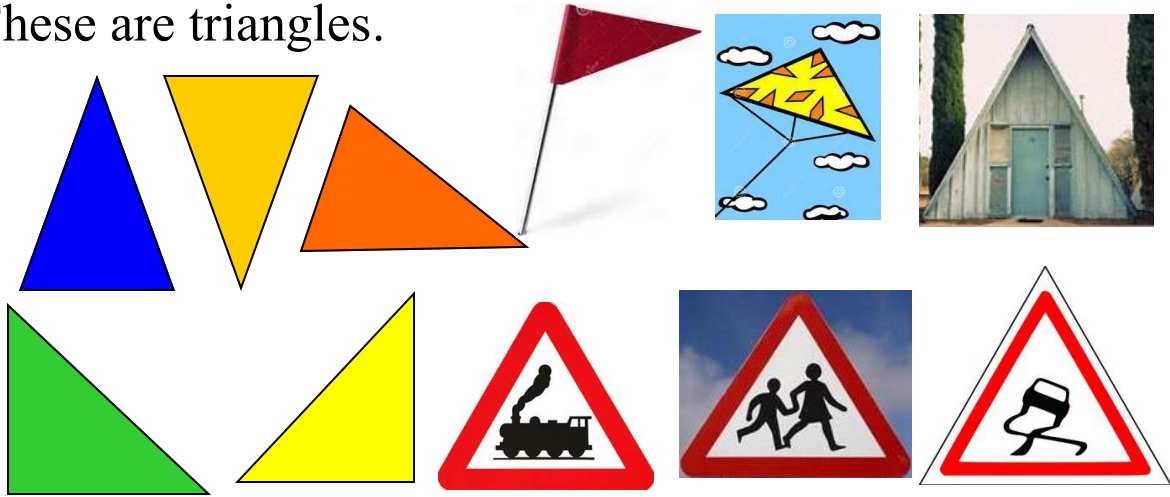


ACTIVITY: The teacher will show students plane shapes and say their names.

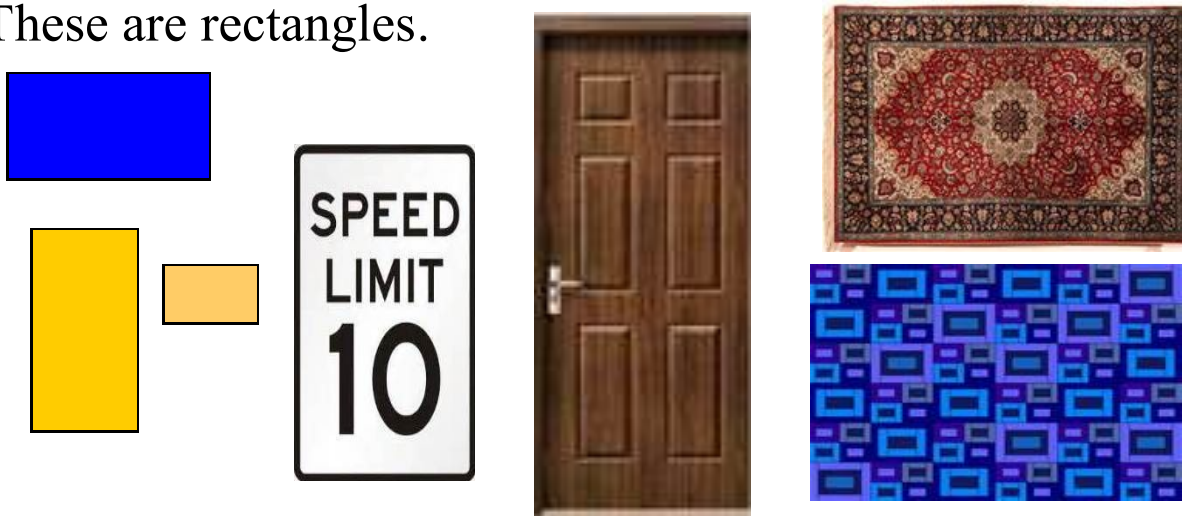
These are squares.



These are triangles.



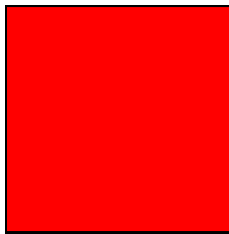
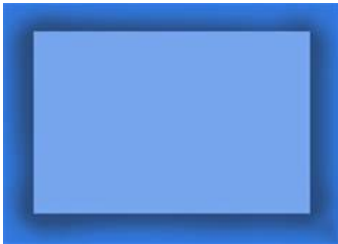
These are rectangles.



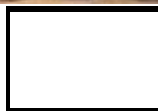
These are circles



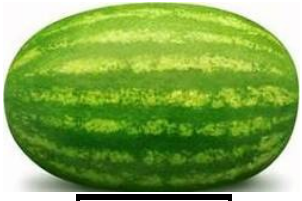
Write **s** next to the squares



Write **t** next to the triangles.



Write **r** next to the rectangles.

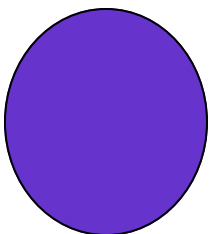


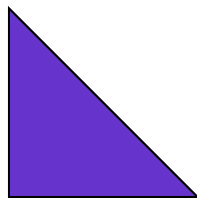








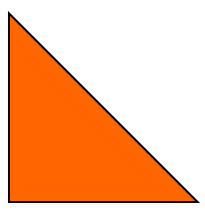


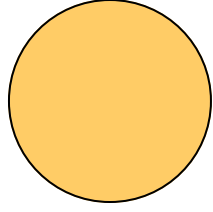






Write **c** next to the circles.

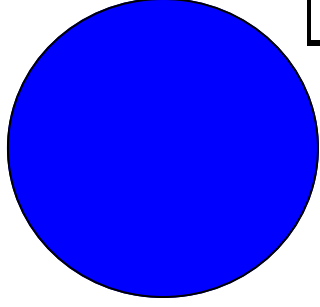










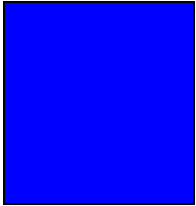




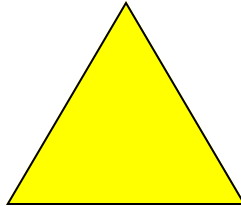


Properties of plane shapes

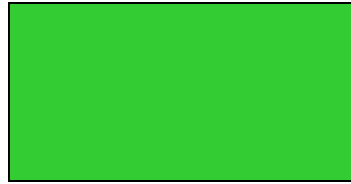
These shapes are flat (plane).



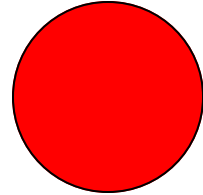
square



triangle

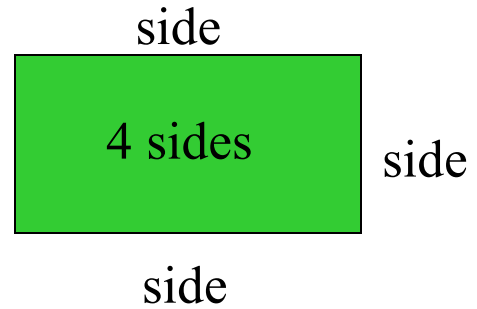
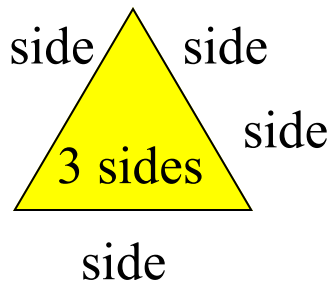
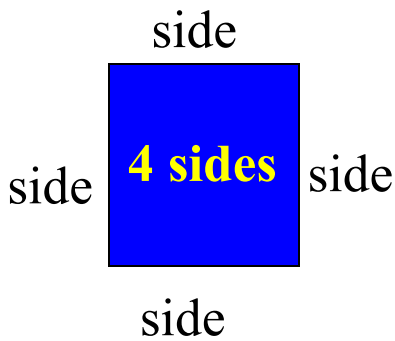


rectangle

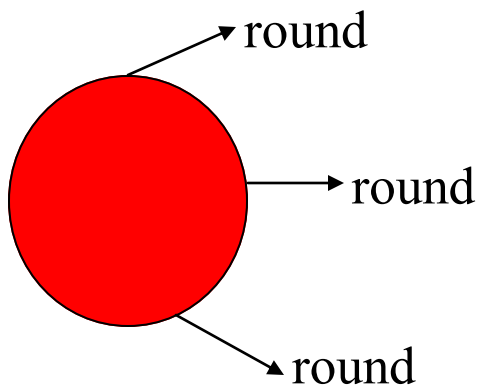


circle

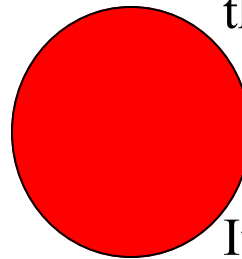
These shapes have straight sides.



This shape is round. It can roll.



→ It can roll this way.



← It can also roll this way.

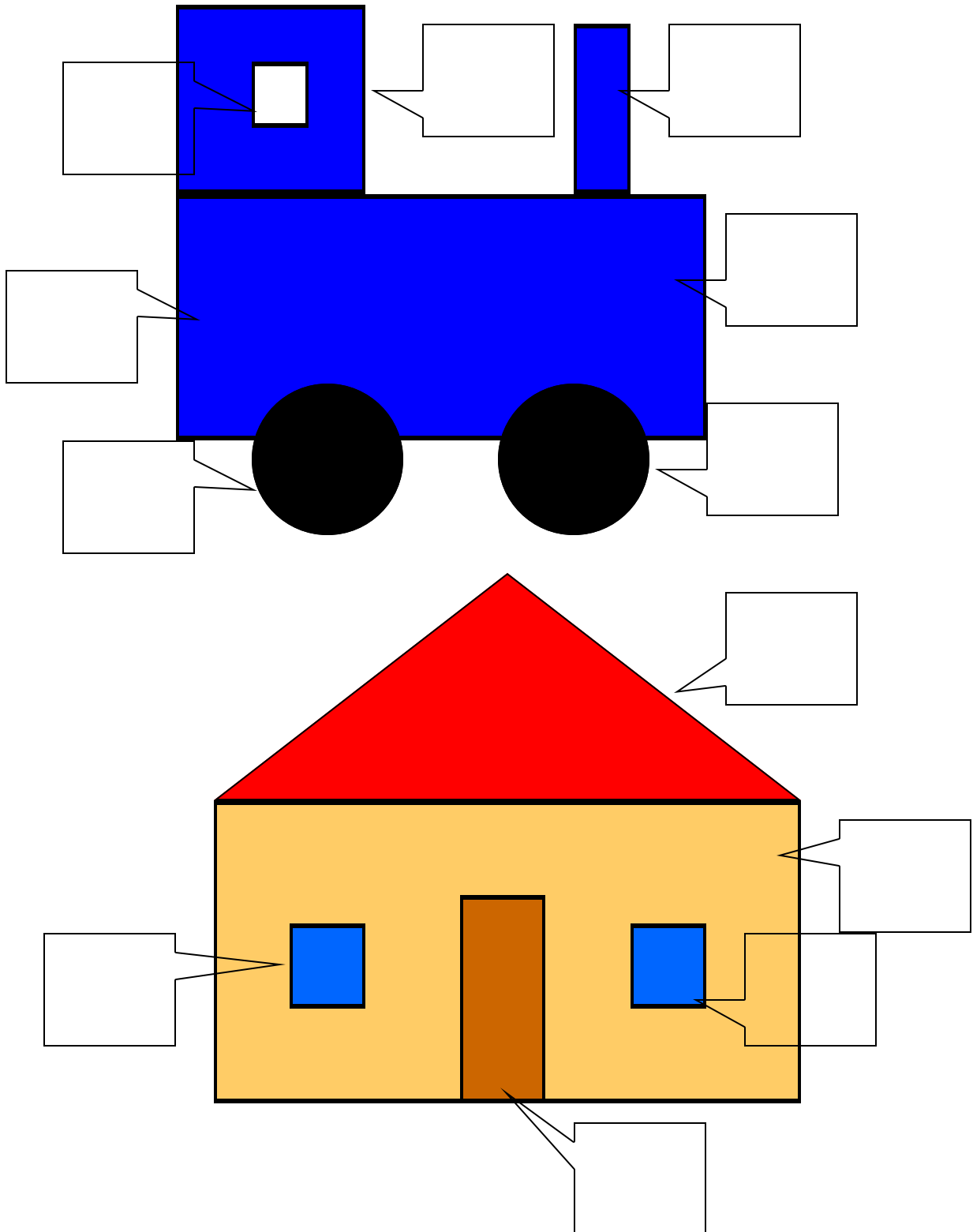
Models with plane shapes

Write **s** for square, **t** for triangle, **r** for rectangle and **c** for circle.

The worksheet contains the following objects and their associated labeling boxes:

- Bicycle:** Two boxes pointing to the wheels, and one box pointing to the frame.
- Speaker:** One box pointing to the large circular driver, and one box pointing to the smaller circular tweeter.
- Traffic Light:** Three boxes pointing to the red, yellow, and green lights, and one box pointing to the grey rectangular housing.
- Boat:** One box pointing to the yellow hull, one box pointing to the blue rectangular cabin, and one box pointing to the cyan triangular sail.
- Warning Sign:** One box pointing to the red triangular border and one box pointing to the black circular symbol inside.

Write **s** for square, **t** for triangle, **r** for rectangle and **c** for circle.



Solids

These are boxes.



These are also boxes.



These are balls.



These are cans.

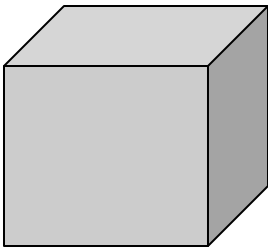


These are cones.



Special names for solids.

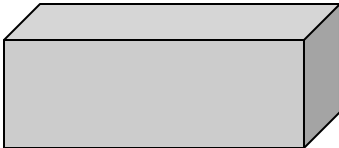
This is a cube.



These are cubes.



This is a cuboid.



These are cuboids.



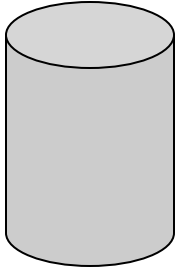
This is a sphere.



These are spheres.



This is a cylinder.



These are cylinders.



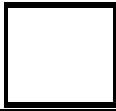
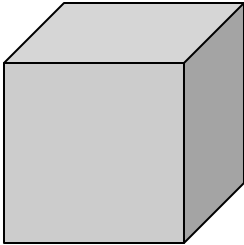
This is a cone.



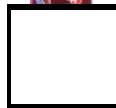
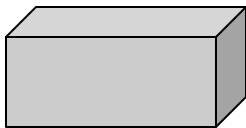
These are cones.



Write **c** next to the cubes.



Write **c** next to the cuboids.



Write **s** next to the spheres.



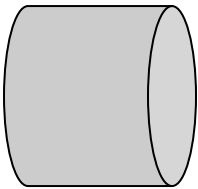








Write **c** next to the cylinders.















Write **c** next to the cones.





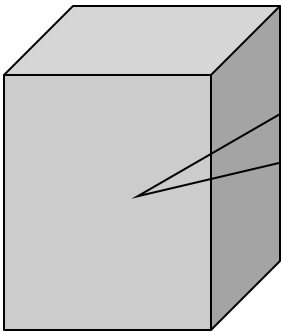
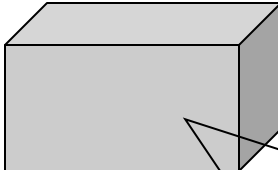
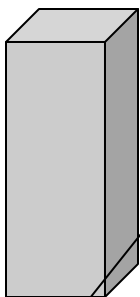








Properties of solids

ACTIVITY: The teacher will show students solids and talk about their properties.

<p>cube</p> 	<p>This is my face. It is flat.</p>	<p>I have 6 faces. All my faces are squares. They are the same size. My sides are straight. I am not round. I cannot roll.</p>
<p>cuboid</p> 	<p>I have 6 faces. They are all flat. My sides are straight. I am not round. I cannot roll.</p>	 <p>If I stand on this face, I still cannot roll.</p>
<p>sphere</p> 	<p>I am round, so I can roll. I am not flat. I am not pointed. I do not have straight sides.</p>	 <p>We are also round.</p>

cylinder

My top is flat and round. My top is a circle.

My side is round.

When I lie like this, I can roll.

cone

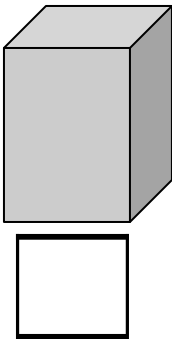
This side is pointed

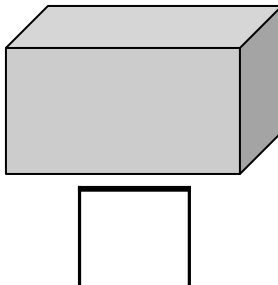
This side is flat. It is a circle.

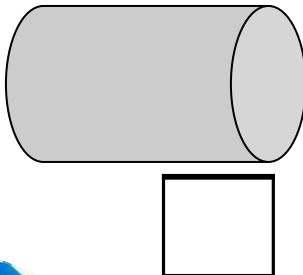
My side is round. It is not flat.

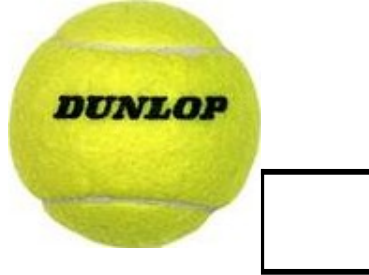
When I lie like this, I can roll.

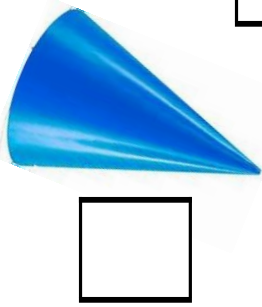
Write **r** next to the solids that can roll.






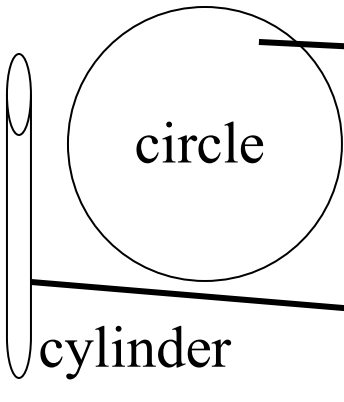
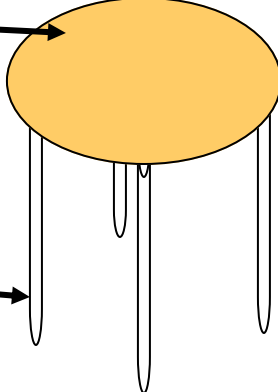

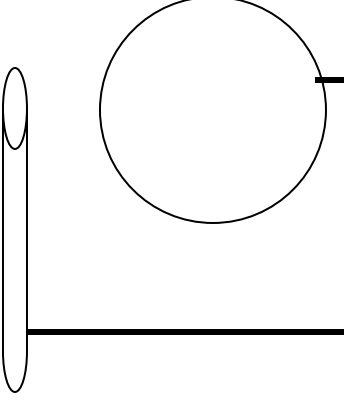
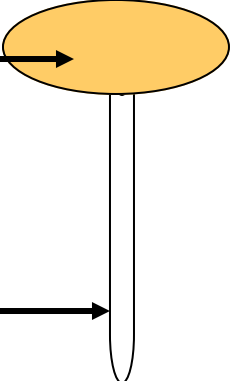

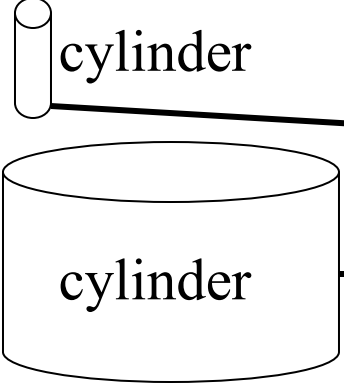
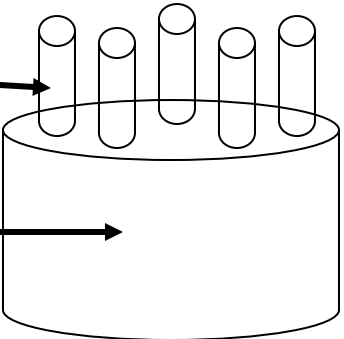





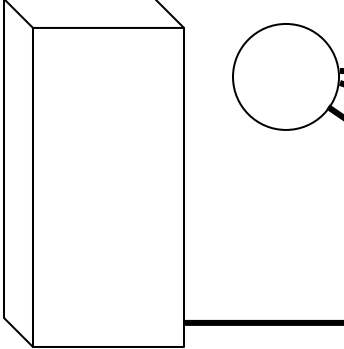
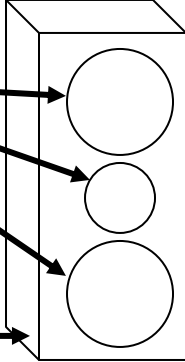

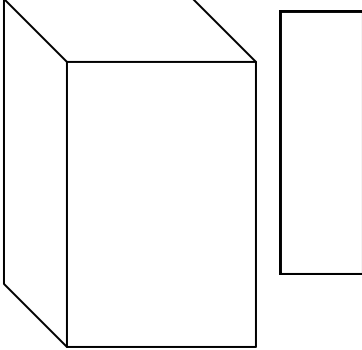
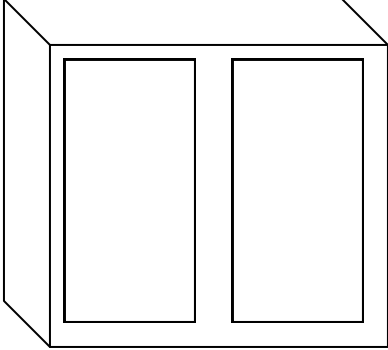

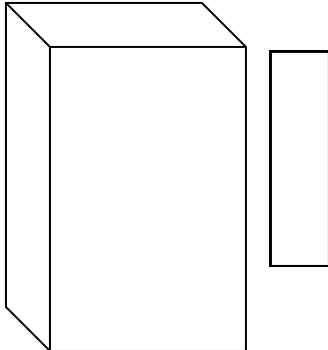
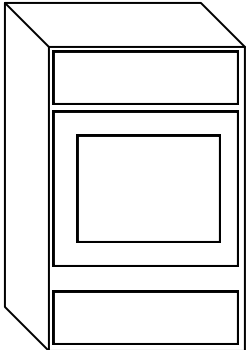

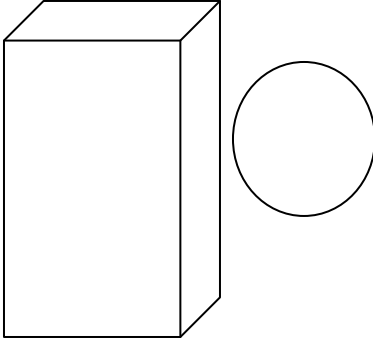
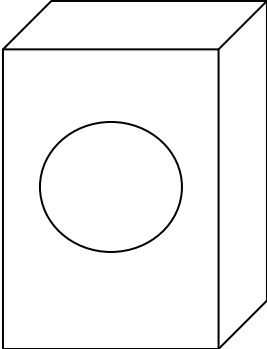


Models with solids

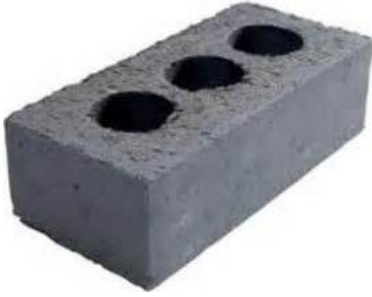
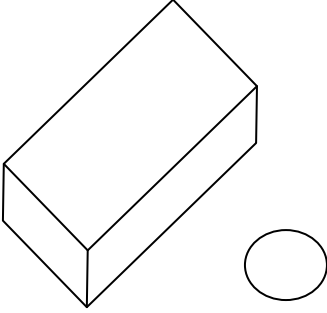
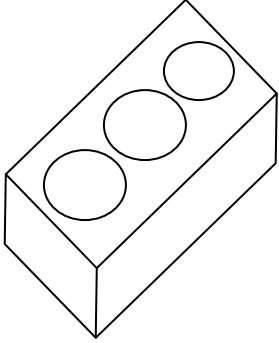




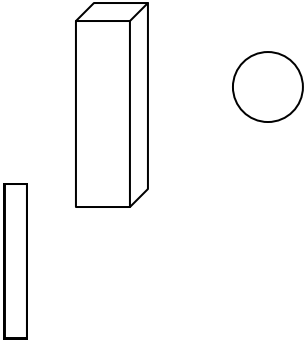
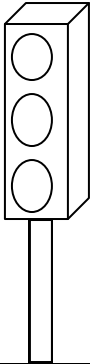

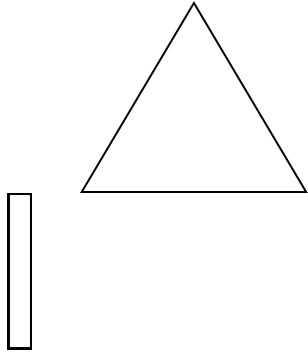
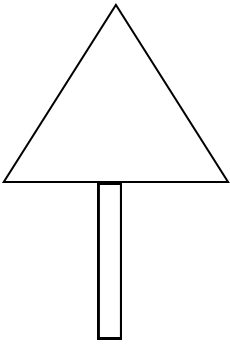
ACTIVITY: The teacher will show students solids and how to make models.

objects	shapes	models
		
		
		

Draw lines from the shapes to the model.

objects	shapes	models
		
		
		
		

Draw lines from the shapes to the model.

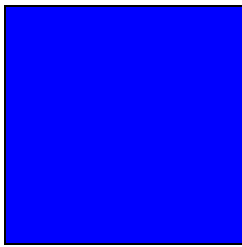
objects	shapes	models
		
		
		
		

2-D and 3-D shapes

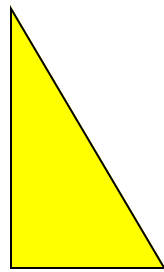
ACTIVITY: The teacher will show the class 2-D and 3-D shapes.

2-D shapes

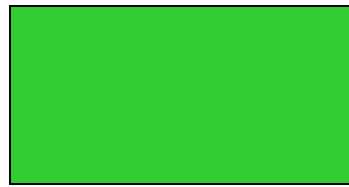
These shapes are flat. Remember Joel's poem.



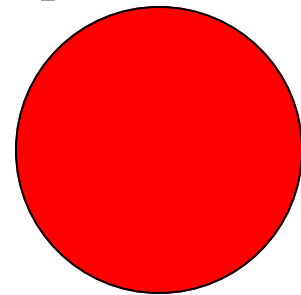
square



triangle



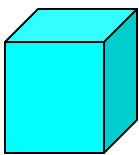
rectangle



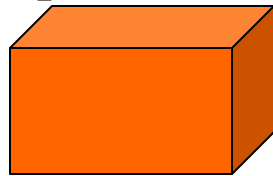
circle

3-D shapes

These shapes are solids.



cube



cuboid



sphere



cone

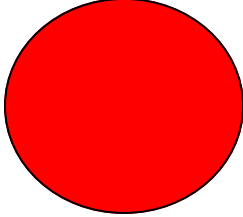




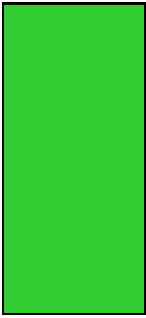



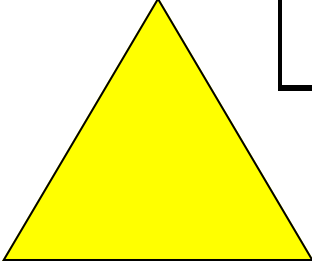

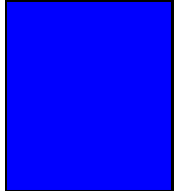
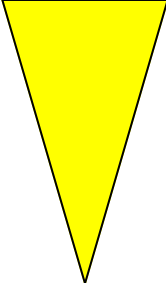



cylinder

These cannot roll. They are not round.

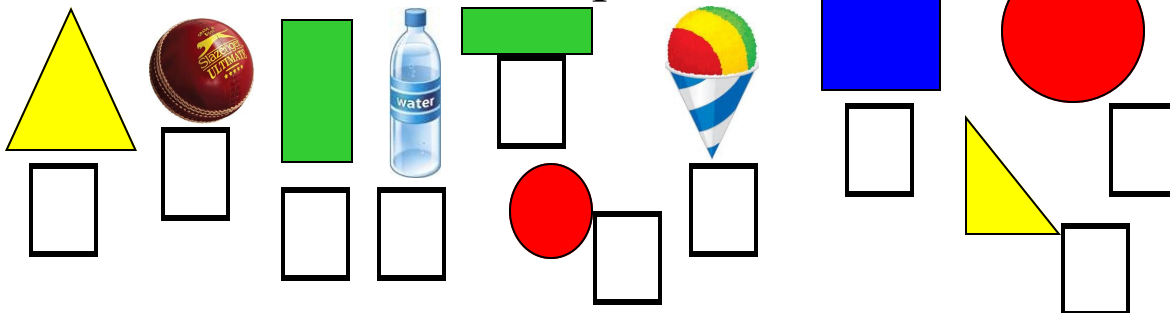
These shapes can roll. The cone and cylinder can roll when they lie like this.

Write **2 D** next to the plane shapes and **3 D** next to the solids.

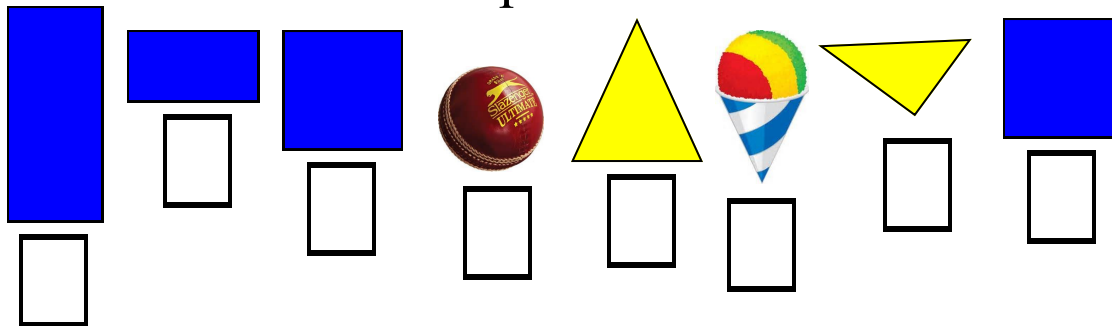
			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="3-D"/>
			
<input type="checkbox"/>	<input type="checkbox" value="2-D"/>	<input type="checkbox"/>	<input type="checkbox"/>
			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			
		<input type="checkbox"/>	<input type="checkbox"/>

Comparing plane shapes

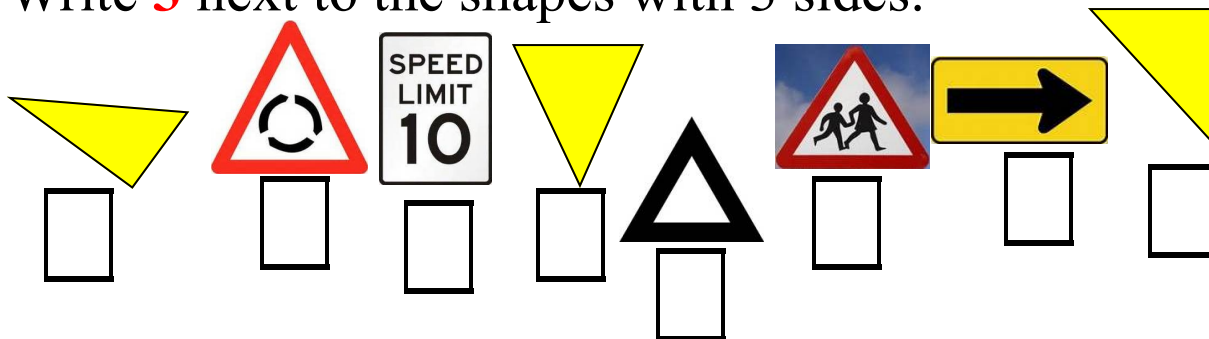
Write **f** next to the flat shapes.



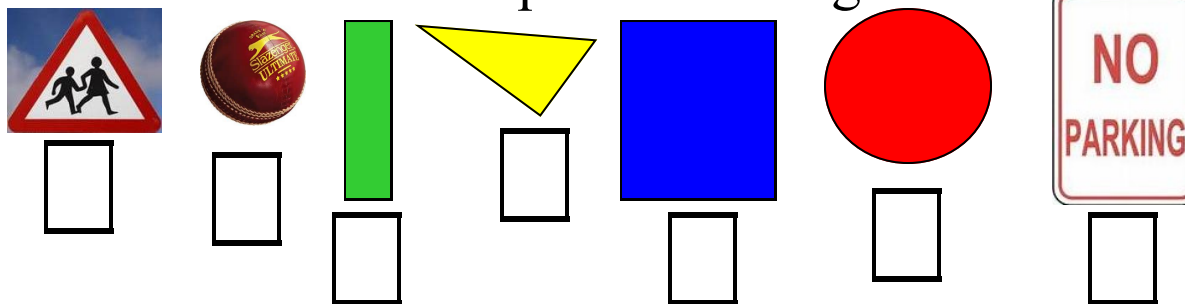
Write **4** next to the shapes with 4 sides



Write **3** next to the shapes with 3 sides.

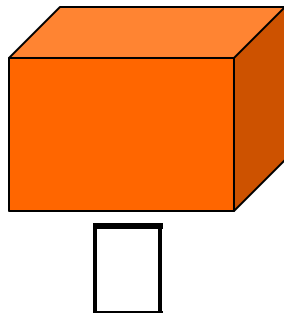
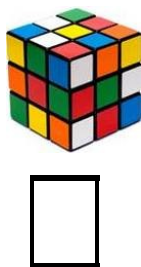
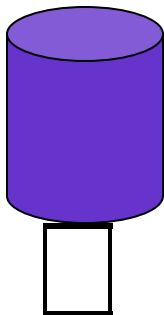


Write **s** next to the shapes with straight sides.

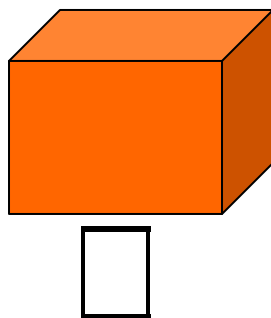
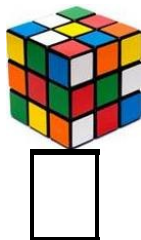
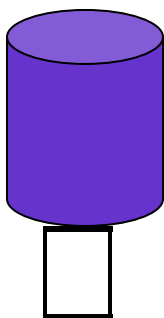


Comparing solids

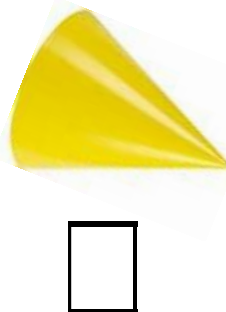
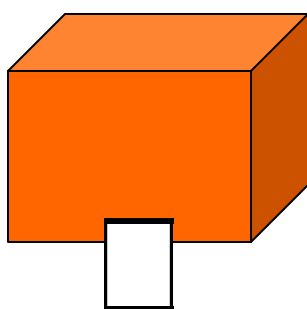
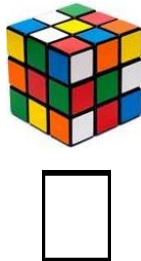
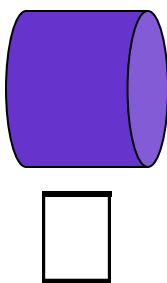
Write **f** next to the solids with a flat side.



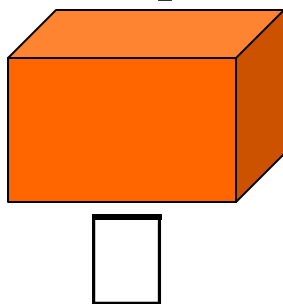
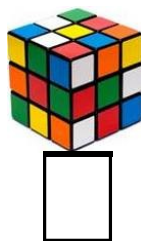
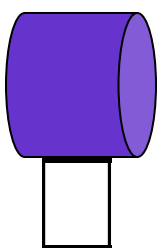
Write **r** next to the solids that are round.



Write **r** next to the solids that can roll.



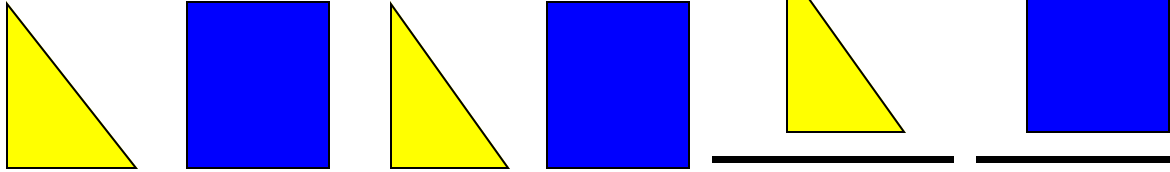
Write **s** next to the shapes where faces have straight sides.



Geometrical patterns

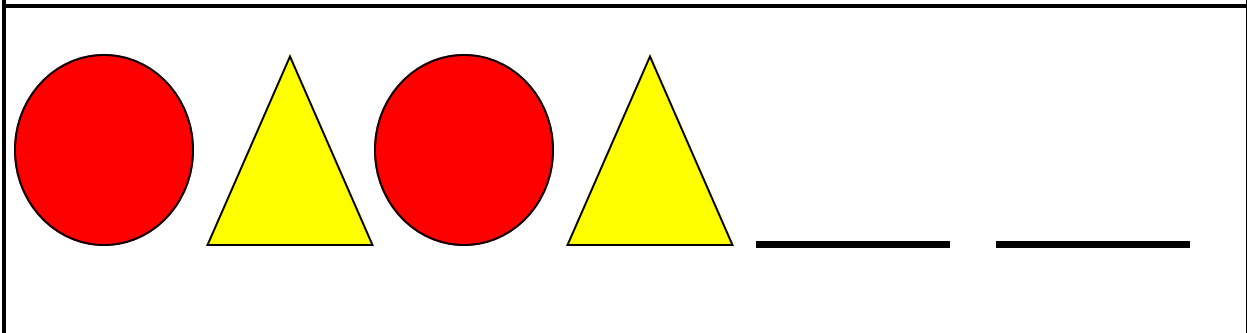
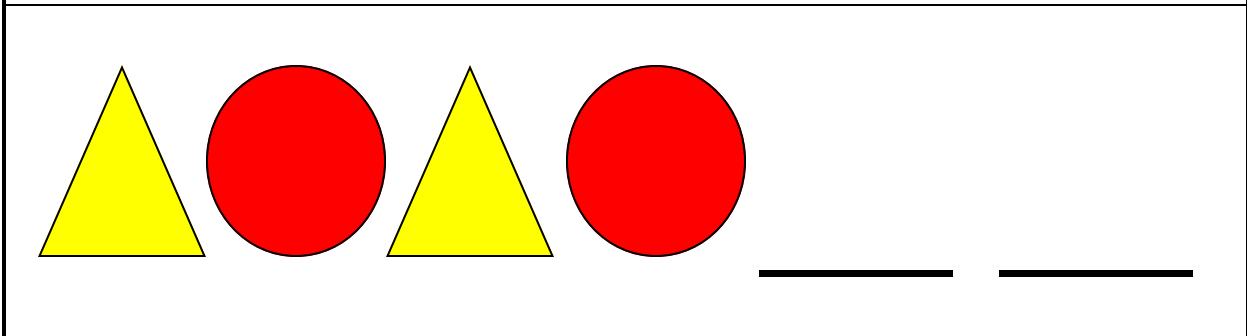
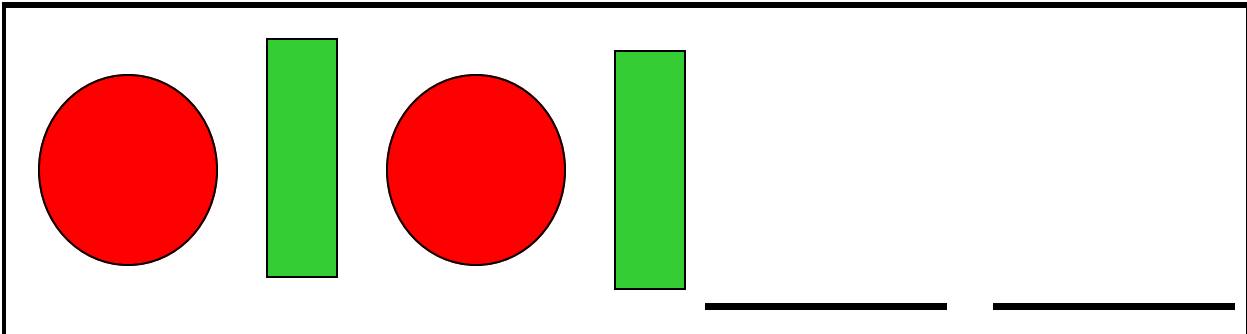
Patterns with plane shapes

2 shapes pattern

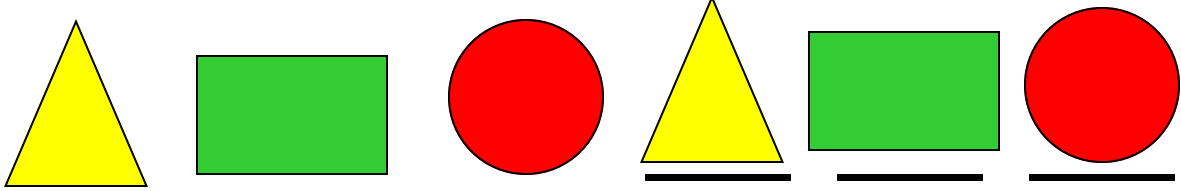


These are the next 2

Draw the next 2 shapes.

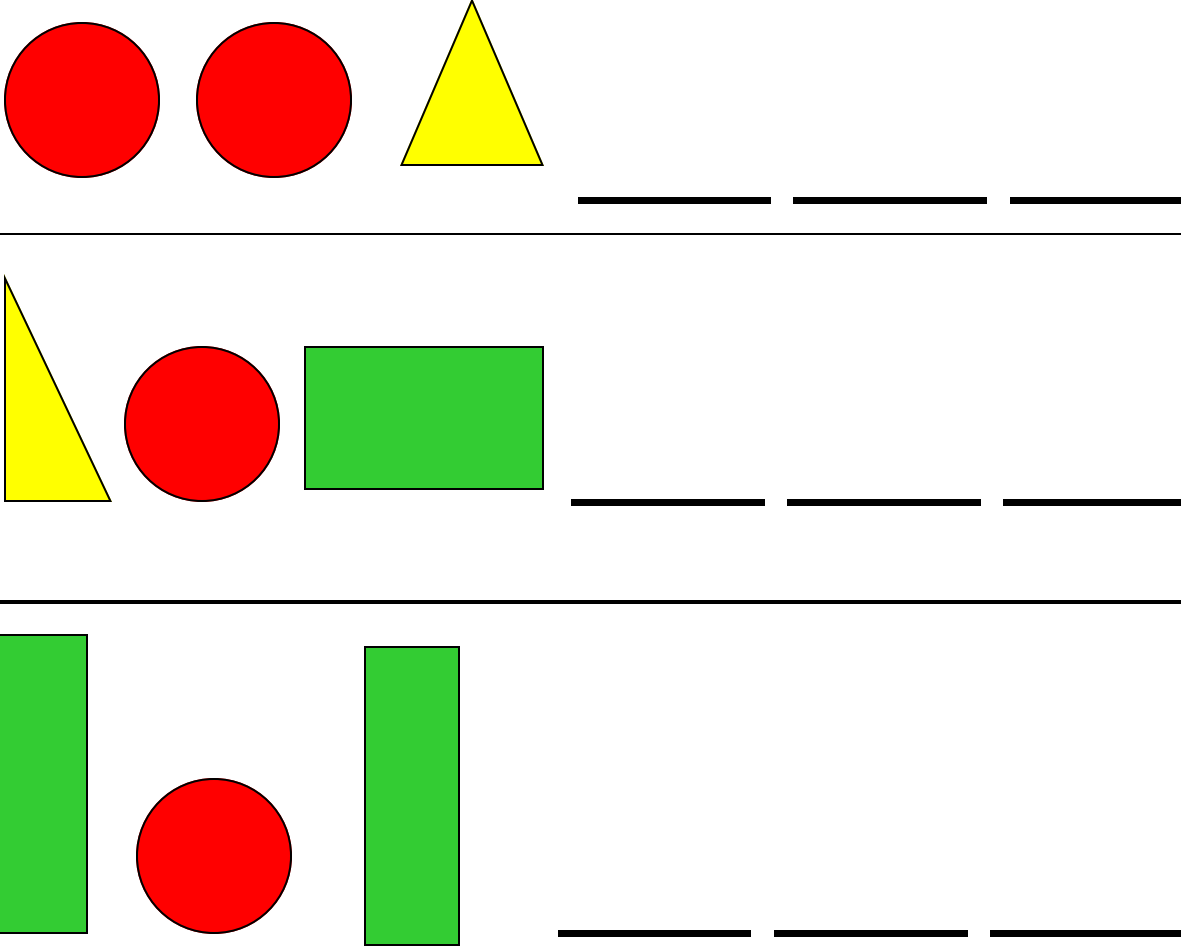


3 shapes pattern



These are the next 3 shapes.

Draw the next 3 shapes.



Row 1: Two red circles, one yellow triangle, followed by three dashed lines.

Row 2: One yellow right-angled triangle, one red circle, one green rectangle, followed by three dashed lines.

Row 3: One green vertical rectangle, one red circle, one green vertical rectangle, followed by three dashed lines.

Patterns with solids

2 solids pattern



These are the next 2 solids

Circle the next two solids.

	<table border="1"> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>				
	<table border="1"> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>				
	<table border="1"> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>				

3 solids pattern



These are the next 3 solids

Circle the next 3 solids.

<p>_____</p>	
<p>_____</p>	
<p>_____</p>	

VOCABULARY FOR GEOMETRY

ball



can



box



block



cone



flat

These
tiles are
flat.



not flat



The top of the
snow cone is
not flat.

round



The ball is
round, so it
can roll.

size



These do not have the same size.

tall



This water tank is tall.

short



The fridge is tall. The stove is short.

thin



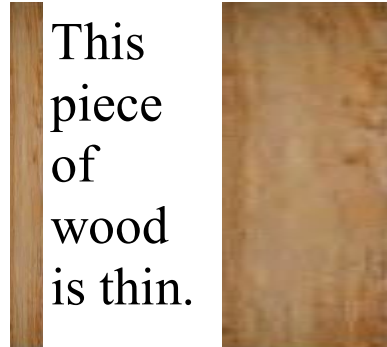
Joel has a thin drinking straw.

thick



The rope is thick.

broad



This piece of wood is thin.

This piece of wood is broad.

big










This gift is big.

small







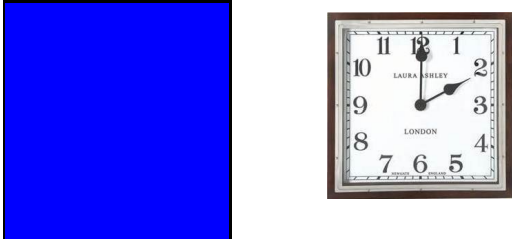
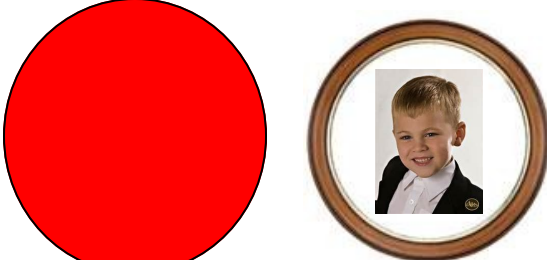


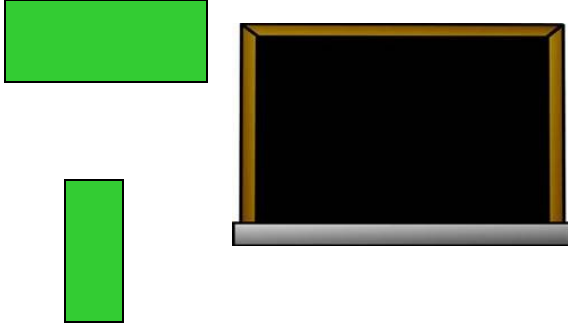
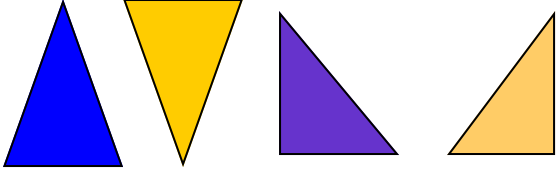






This gift is small.



<p>narrow</p> <p>This stove has a narrow top.</p> 	<p>wide</p> <p>This stove has a wide top.</p> 
<p>on top of</p> 	<p>next to</p> 
<p>over</p> <p>The clouds are over the house.</p> 	<p>between</p> <p>The ball is between.</p> 
<p>underneath</p> <p>The yellow book is underneath.</p> 	<p>above</p> <p>The Sun is above.</p> 

<p>under</p>  <p>The ball is under the table.</p>	<p>up</p>  <p>He is up.</p>
<p>down</p>  <p>He is down.</p>	<p>on</p>  <p>Now the ball is on the table.</p>
<p>beside</p>  <p>The milo is beside the milk. The milk is beside the milo.</p>	<p>in</p>  <p>The ice cream is in the cone.</p>
<p>shape</p>  <p>These solids have different shapes.</p>	<p>pointed</p>  <p>This side of the cone is pointed.</p>

<p>behind</p> <p>The ball is behind the duster.</p> 	<p>in front of</p> <p>The duster is in front of the ball.</p> 
<p>near</p> 	<p>far</p> 
<p>below</p> <p>It is in the below shelf.</p> 	<p>same</p> <p>They are the same.</p> 
<p>squares</p> 	<p>circles</p> 

<p>rectangles</p> 	<p>triangles</p> 
<p>bottom</p>  <p>It is in the bottom shelf.</p>	<p>pattern</p>  <p>My towel has a pattern of roses.</p>
<p>repeat</p>  <p>This is a repeat pattern.</p>	<p>inside</p>  <p>The food is inside the box.</p>
<p>outside</p>  <p>The milo is outside the box.</p>	<p>in the middle</p>  <p>The ice cream is in the middle.</p>

high



higher



low



lower



here



there



far from



close to

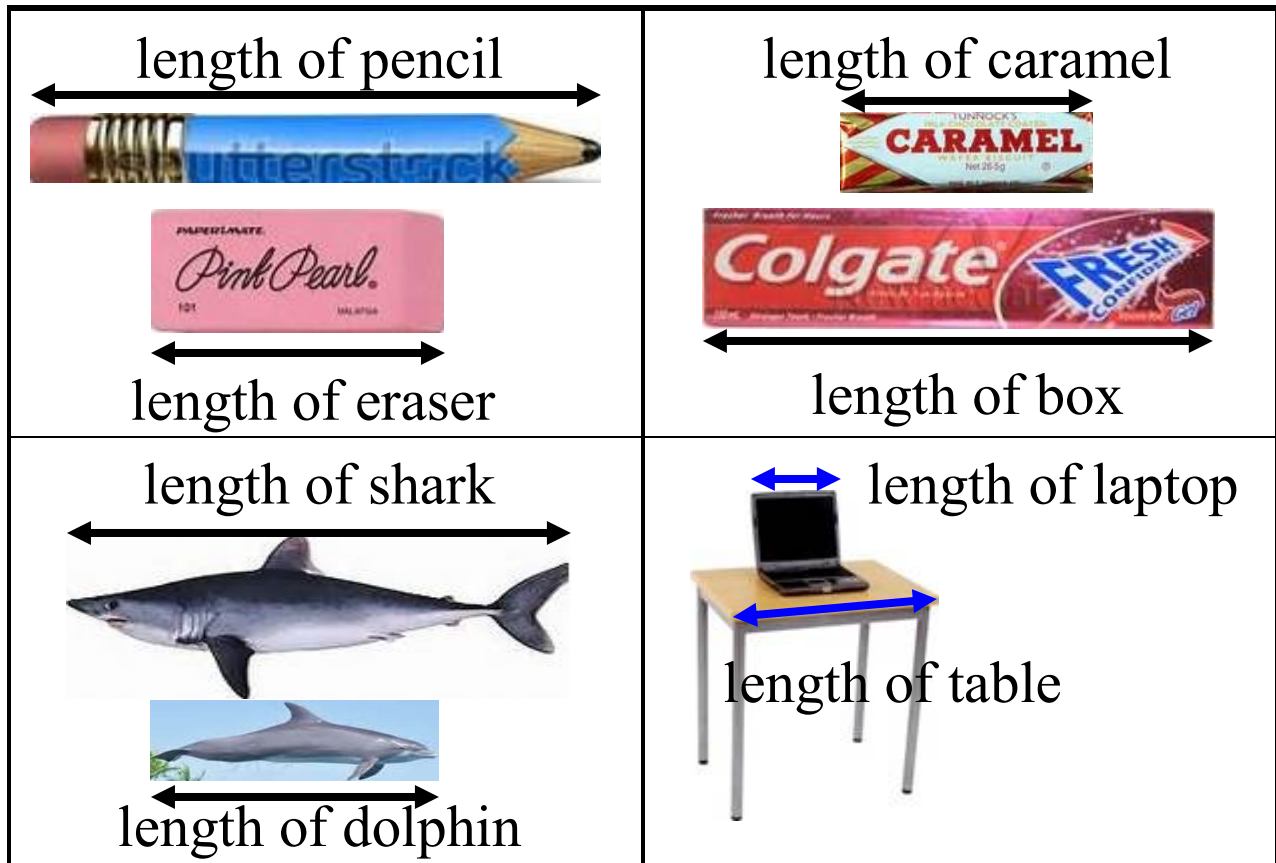


MEASUREMENT

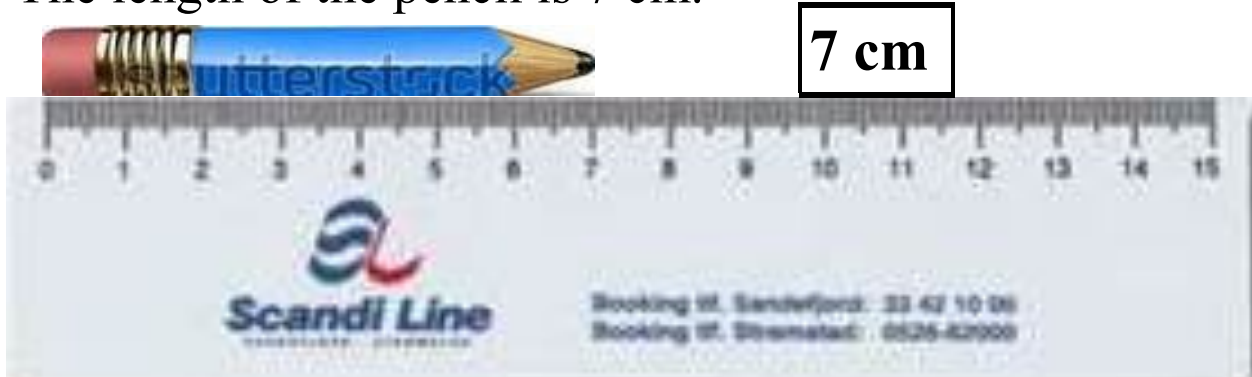
Length

Length is from one end to the other end.





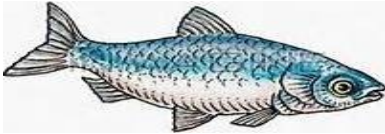



ACTIVITY: The teacher will show the class lengths of objects and how to measure these with a ruler.




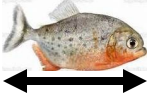


The length of the pencil is 7 cm.



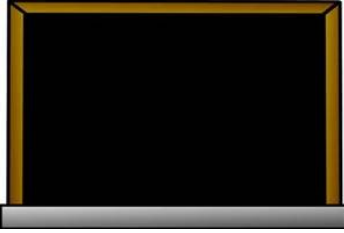







Write the length of these.

	<div style="border: 1px solid black; padding: 5px; display: inline-block;">cm</div>
	
	<div style="border: 1px solid black; padding: 5px; display: inline-block;">cm</div>
	
	<div style="border: 1px solid black; padding: 5px; display: inline-block;">cm</div>
	
	<div style="border: 1px solid black; padding: 5px; display: inline-block;">cm</div>
	

Long and short

 <p>The shark is long.</p>  <p>The fish is short.</p>	 <p>This umbrella is long.</p>  <p>This umbrella is short.</p>
---	---


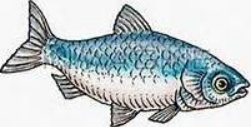






Write **l** for long and **s** for short.

 <input type="text"/>  <input type="text"/>	 <input type="text"/>  <input type="text"/>
 <input type="text"/>  <input type="text"/>	 <input type="text"/>  <input type="text"/>



Longer and shorter

 <p>The shark is longer.</p>  <p>The fish is shorter.</p>	 <p>This umbrella is longer.</p>  <p>This umbrella is shorter.</p>
---	---

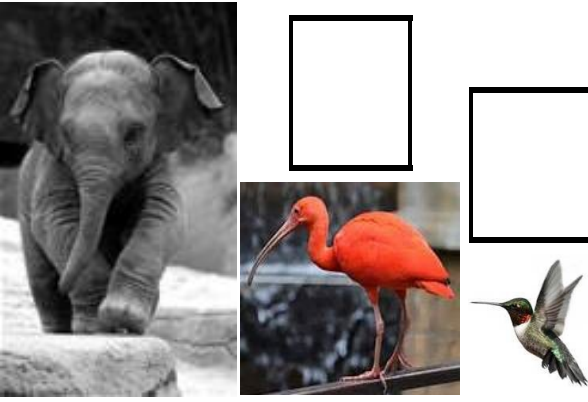
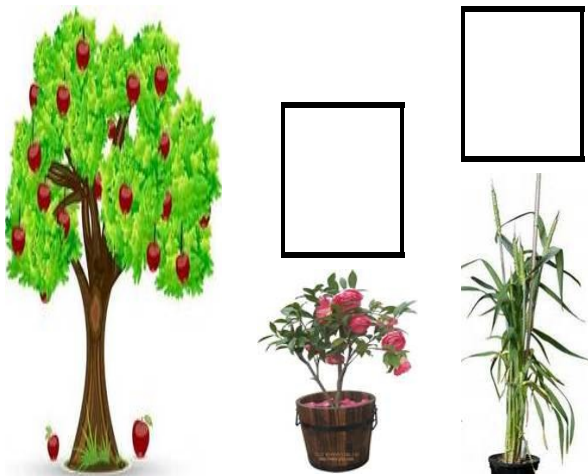
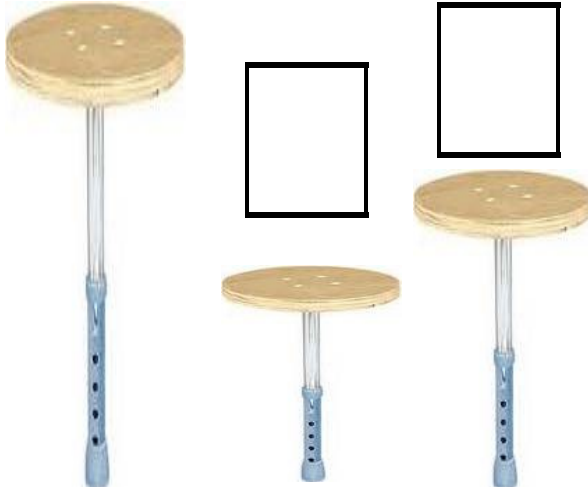

Write **l** for longer and **s** for shorter.

 <input type="text"/>  <input type="text"/>	 <input type="text"/>  <input type="text"/>
 <input type="text"/>  <input type="text"/>	 <input type="text"/>  <input type="text"/>





Short and shorter

 <p>short shorter</p>	 <p>short shorter</p>
---	--









Write **s** for short and **r** for shorter.

Long and longer

 <p>A long piece of wood.</p>  <p>A longer piece of wood.</p>	 <p>long</p> <p>longer</p> 
---	---

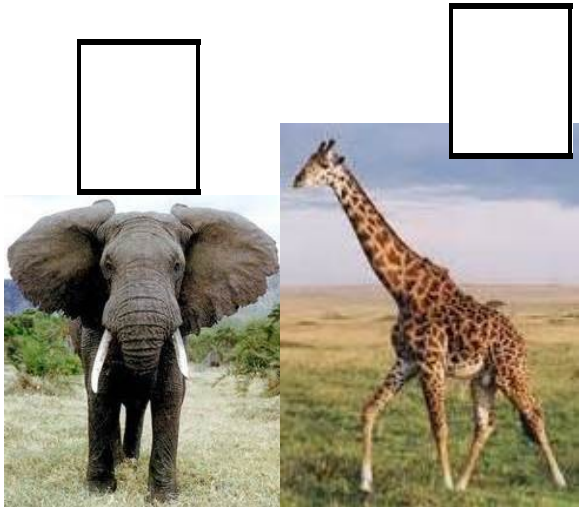
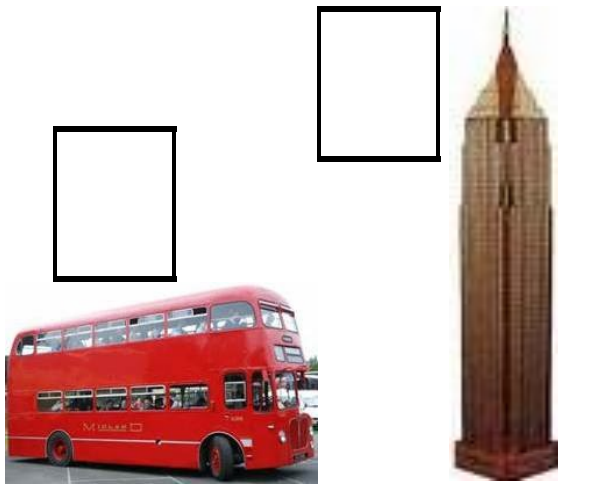
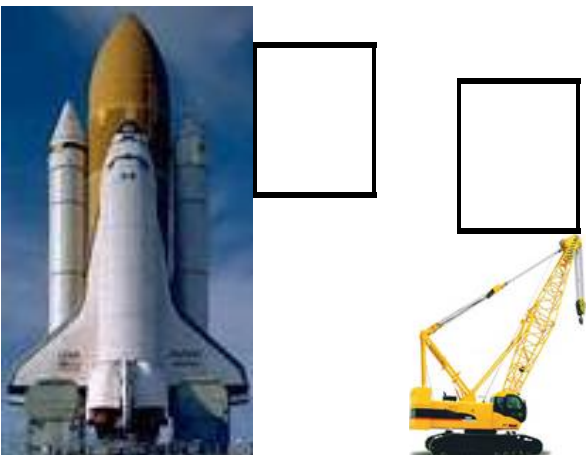

Write **l** for long and **r** for longer.

 <input type="checkbox"/>  <input type="checkbox"/>	 <input type="checkbox"/>  <input type="checkbox"/>
 <input type="checkbox"/>  <input type="checkbox"/>	 <input type="checkbox"/>  <input type="checkbox"/>



Tall and taller

<p>tall</p>  <p>taller</p>	<p>tall</p>  <p>taller</p>
---	--



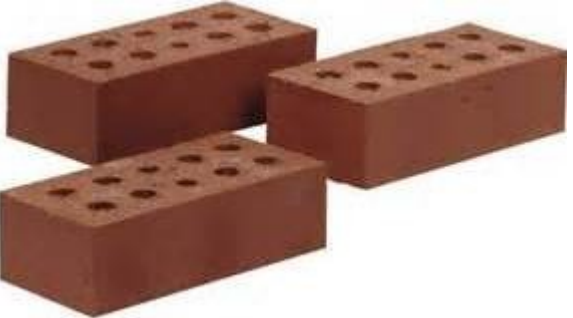

Write **t** for tall and **r** for taller.





As long as (same length)

 <p>The green board is as long as the black board.</p>	 <p>The keyboard is as long as the tool box.</p>
--	---

Write **yes** if one is **as long as** the other.

 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 100px;"></div> </div>	 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 100px;"></div> </div>
 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 100px;"></div> </div>	 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 100px;"></div> </div>



Wide and narrow

	<p>a wide bookcase</p>		<p>a wide floor</p>
	<p>a narrow bookcase</p>		<p>a narrow floor</p>





Write **w** for wide and **n** for narrow.

	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>				
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
					<input type="checkbox"/>

Thin and fat

 <p>I am thin I am fat</p>	 <p>thin</p> <p>fat</p>
--	---

Write **t** for thin and **f** for fat.

 <p><input type="text"/></p> <p><input type="text"/></p>	 <p><input type="text"/></p> <p><input type="text"/></p>
 <p><input type="text"/></p> <p><input type="text"/></p>	 <p><input type="text"/></p> <p><input type="text"/></p>

Deep and shallow

The boat is in the **deep** water.



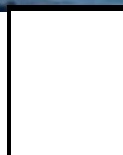
The birds are in the **shallow** water.

The ship is in the **deep** water.



The horse is standing in the **shallow** water.






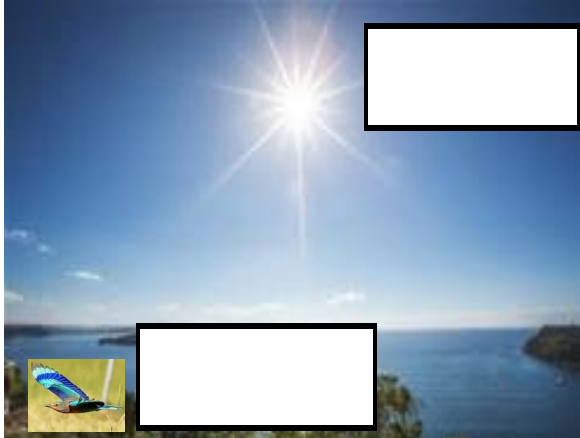

Write **d** for deep and **s** for shallow.



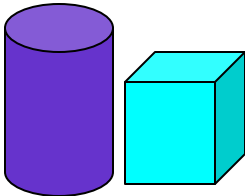

High and low





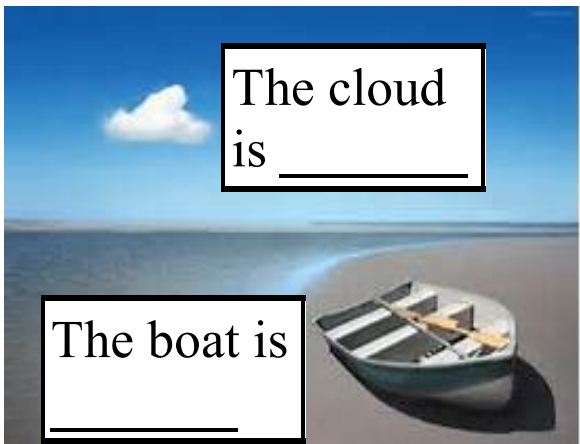
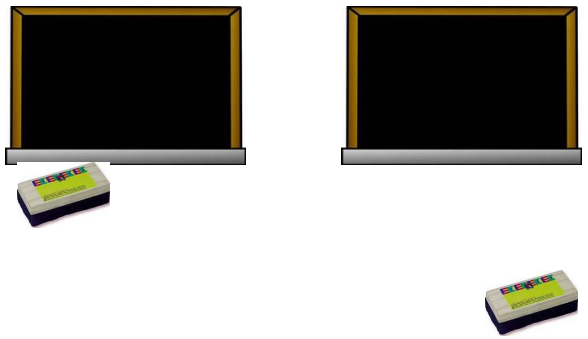
Write **high** or **low** in the boxes.

 <input type="text"/>	 <input type="text"/>  <input type="text"/>
 <input type="text"/>  <input type="text"/>	 <input type="text"/>  <input type="text"/>

Near and far

 <p>These solids are</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">near</div>	 <p>These solids are</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;">far</div>
---	---

Write **near** or **far**.

 <div style="border: 1px solid black; width: 150px; height: 40px; margin: 20px auto;"></div>	 <div style="border: 1px solid black; width: 150px; height: 40px; margin: 20px auto;"></div>
 <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px;"> The cloud is _____ </div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px;"> The boat is _____ </div>	 <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div>

Mass

Light and Heavy

ACTIVITY: The teacher can use a scale to find the mass of individual students at the front of the class. The teacher can show the students that the mass of objects in the class can also be found.

Light



She is **lifting** the balloons.



She is **pushing** the balloons.



She is **pulling** the balloons.

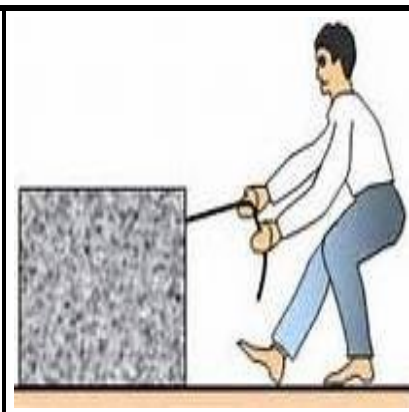
Heavy



She is trying to **lift** the box.





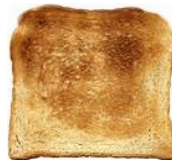





He is trying to **push** the box.






He is trying to **pull** the box.

 heavy	 light	 light	 heavy
--	--	---	---


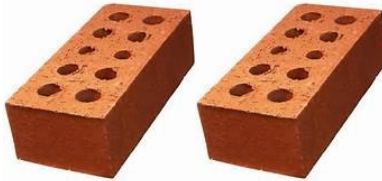






Write **light** or **heavy**.

 <input type="text"/>	 <input type="text"/>	 <input type="text"/>	 <input type="text"/>
 <input type="text"/>	 <input type="text"/>	 <input type="text"/>	 <input type="text"/>





Heavy and heavier

 <p>heavy</p> <p>heavier</p>	 <p>heavy</p> <p>heavier</p>
	









Write **h** for heavy and **r** for heavier.

 <input type="text"/>  <input type="text"/>	 <input type="text"/> <input type="text"/> 
 <input type="text"/>  <input type="text"/>	 <input type="text"/>  <input type="text"/>

Light and lighter

 <p>light</p>  <p>lighter</p>	 <p>light</p>  <p>lighter</p>
---	--










Write **l** for light and **r** for lighter.

 <input type="text"/>  <input type="text"/>	 <input type="text"/>  <input type="text"/>
 <input type="text"/>  <input type="text"/>	<input type="text"/>  <input type="text"/> 

Easy to push and hard to push

 <p>easy to push</p>  <p>hard to push</p>	 <p>easy to push</p>  <p>hard to push</p>
---	---









Write **e** for easy to push and **h** for hard to push.

  <div style="border: 1px solid black; width: 95px; height: 50px; margin: 5px auto;"></div> <div style="border: 1px solid black; width: 95px; height: 50px; margin: 5px auto;"></div>	  <div style="border: 1px solid black; width: 95px; height: 50px; margin: 5px auto;"></div> <div style="border: 1px solid black; width: 95px; height: 50px; margin: 5px auto;"></div>
  <div style="border: 1px solid black; width: 95px; height: 50px; margin: 5px auto;"></div> <div style="border: 1px solid black; width: 95px; height: 50px; margin: 5px auto;"></div>	  <div style="border: 1px solid black; width: 95px; height: 50px; margin: 5px auto;"></div>  <div style="border: 1px solid black; width: 95px; height: 50px; margin: 5px auto;"></div>

Easy to pull and hard to pull

 <p>easy to pull</p>  <p>hard to pull</p>	 <p>easy to pull</p>  <p>hard to pull</p>
---	---

Write **e** for easy to pull and **h** for hard to pull.

  <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	  <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
  <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	  <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>

Weight

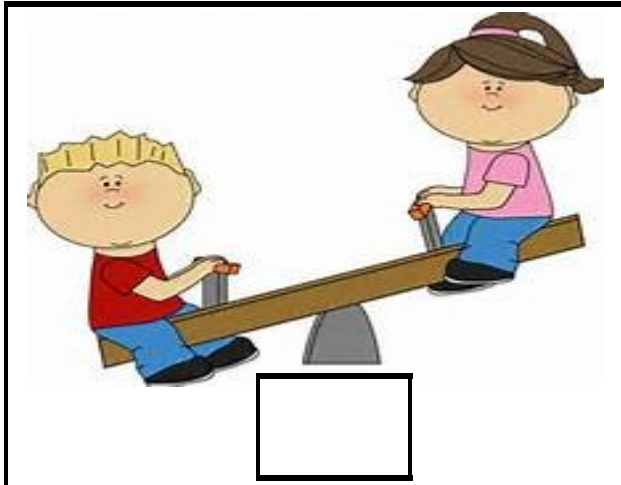


Both mangoes have the **same weight**.





Both girls have the **same weight**.

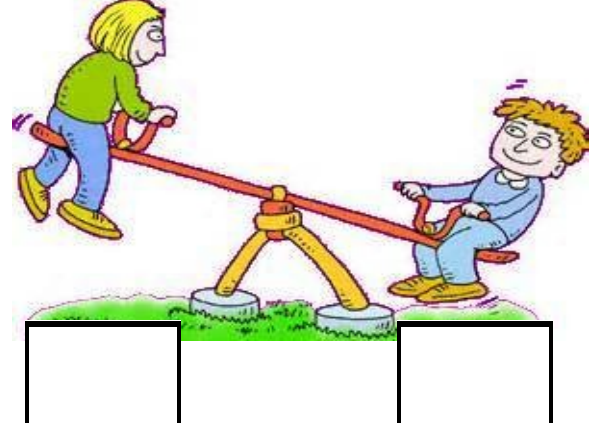


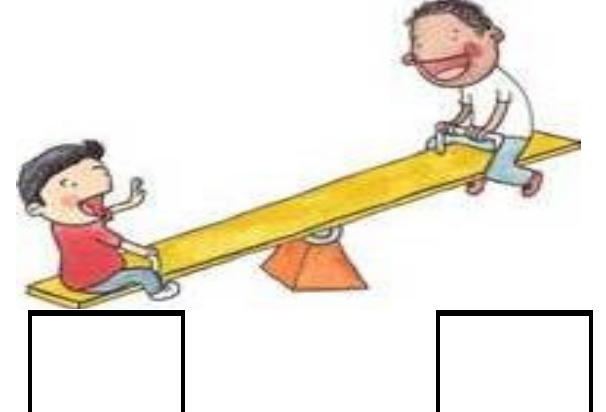
Write **s** for same weight and **d** for different weight.



Light and heavy
Lighter and heavier

	
<p>heavy or heavier</p> <p>light or lighter</p>	<p>light or lighter</p> <p>heavy or heavier</p>

Write **l** for light/lighter and **h** for heavy/heavier.

 <p><input type="text"/></p> <p><input type="text"/></p>	 <p><input type="text"/></p> <p><input type="text"/></p>
 <p><input type="text"/></p> <p><input type="text"/></p>	 <p><input type="text"/></p> <p><input type="text"/></p>

TIME

Day and night



Day. It is sunny today.



Night. The moon is out.

Write **d** for day and **n** for night.









Time of day: sequence of activities



Good morning. She is eating breakfast.



It is lunch time. She is eating lunch in School.



Good afternoon. The students play a game.



Good evening. Joel and his cousin look at TV.



Good night. Joel is sleeping.

Morning comes first.

1. Which is second?

2. Which is third?

3. Which is last?

Early and earlier



Write **e** for early and **r** for earlier.



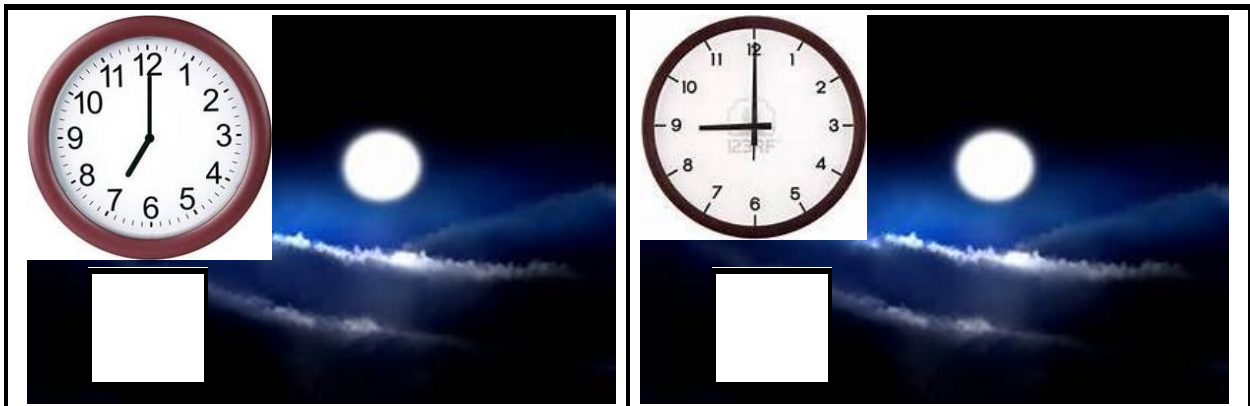
Write **e** for early and **r** for earlier.



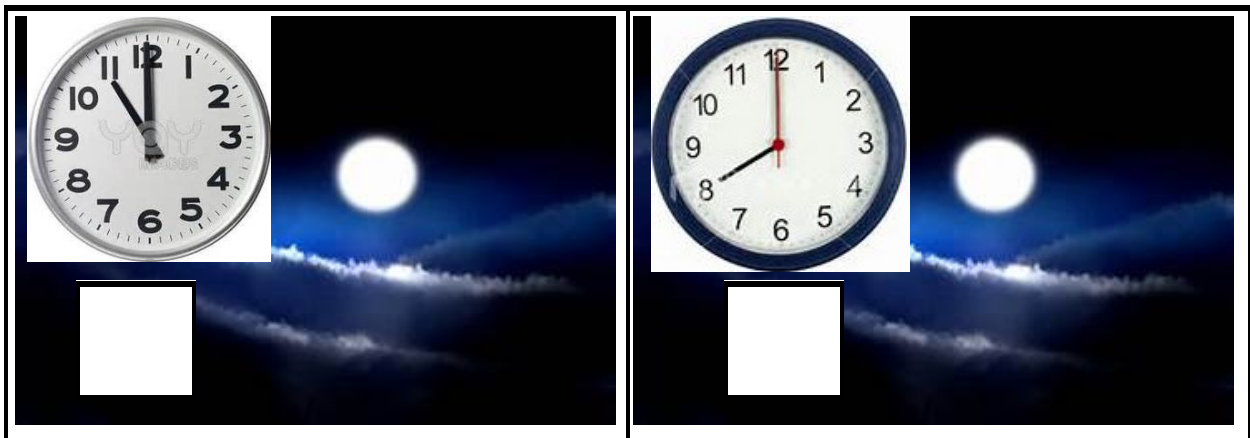
Late and later



Write **l** for late and **r** for later.



Write **l** for late and **r** for later.



Short time and long time



He takes a **short time** to drink his milk.

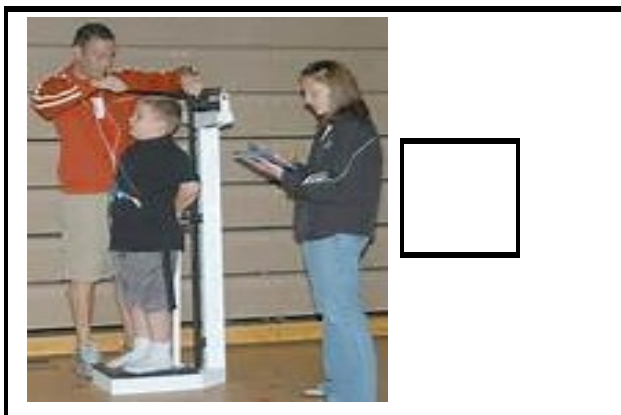


She takes a **long time** to eat her breakfast.

Write **s** for short time and **l** for long time.

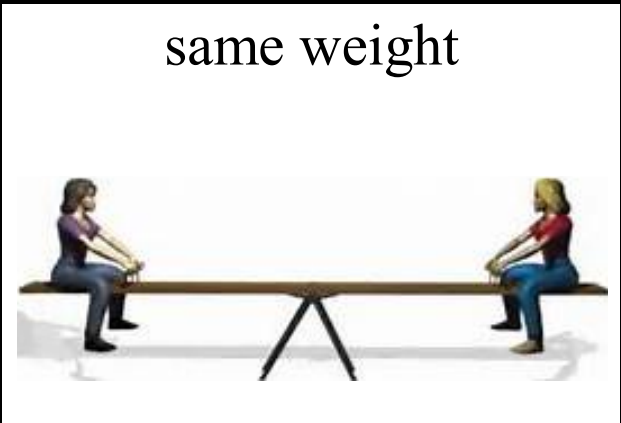
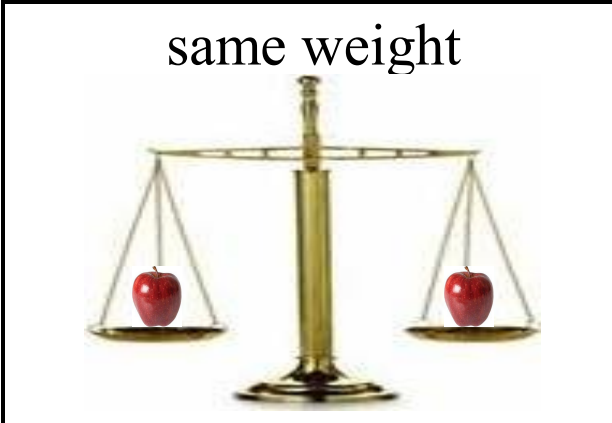
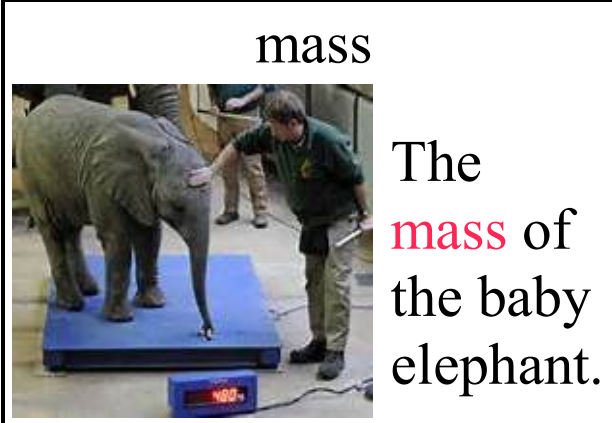
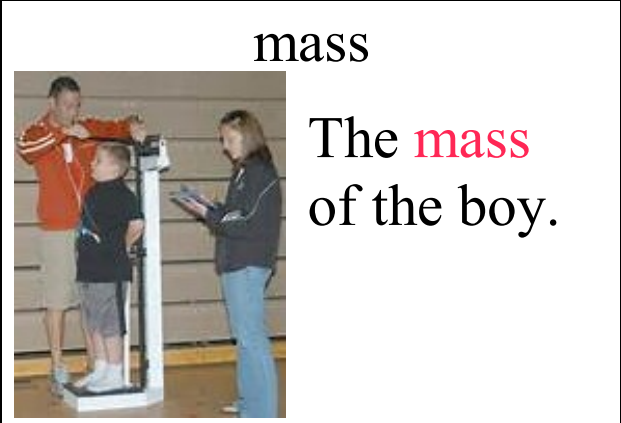
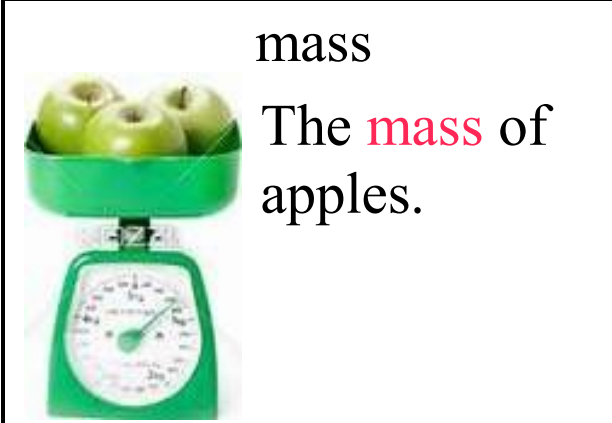
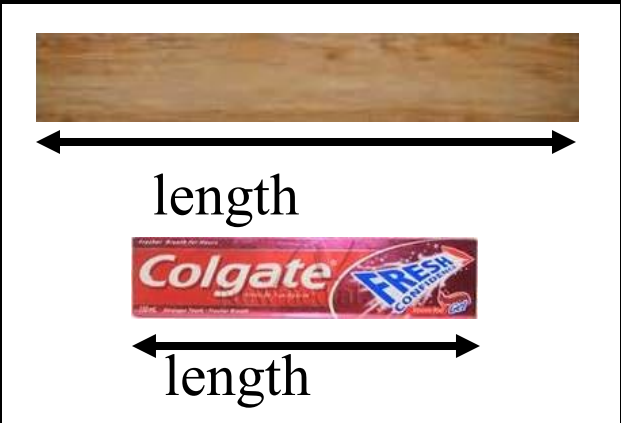


Write **s** for short time and **l** for long time.



VOCABULARY FOR MEASUREMENT

 <p>short shorter</p>	 <p>long rope</p>  <p>longer rope</p>
 <p>tall</p>  <p>taller</p>	 <p>same length or as long as</p>
<p>wide river</p>  <p>narrow river</p> 	 <p>thin</p>  <p>fat</p>
 <p>deep water</p>  <p>shallow water</p>	 <p>high</p>  <p>low</p>





heavy
weight

light
weight



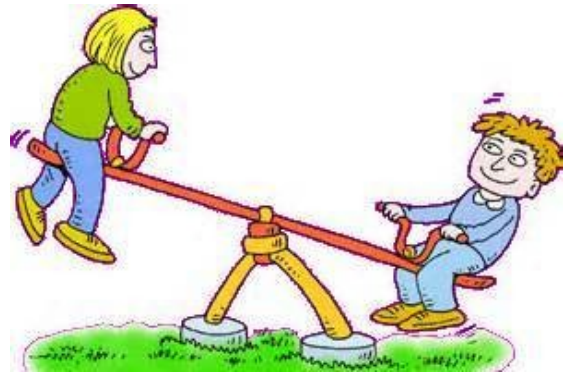
heavy
weight

light
weight



light
weight

heavy
weight



light
weight

heavy
weight



light



lighter

easy to push



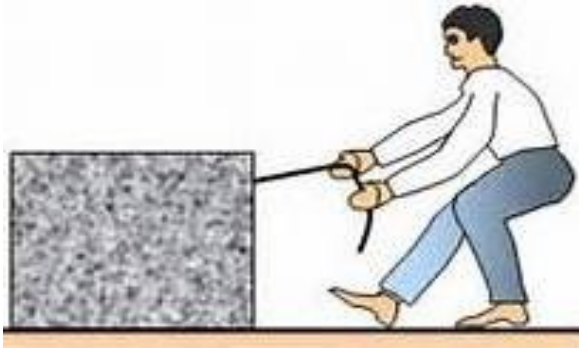
hard to push



easy to pull



hard to pull



time



morning



midday



afternoon



evening



day



It is a sunny day

night



It is a cold night



early

earlier



late

later

short time



long time



heavy



light



STATISTICS

Sorting and Grouping

ACTIVITY: The teacher will call ten students to the front of the class and sort them into groups, e.g. a group of boys, a group of girls, a group with black pencils, a group with short hair, a group with long hair, etc.

Count



1



2



3



4



5



6



7



8



9



10

Sort and group



4 boys

1 2 3 4



1 2 3 4 5 6

6 girls

1. How many boys? _____











2. How many girls? _____

3. How many altogether? _____
















4. More girls than boys. Yes/No

5. Less boys than girls. Yes/No

Put them in a table.

boys	girls
 1	 1
 2	 2
 3	 3
 4	 4
	 5
	 6
4 boys	6 girls
















Object chart (horizontal with grids)

pens					
pencils					
erasers					
sharpeners					

Objects in class.

1. There are _____ pencils.
2. There are _____ sharpeners
3. How many pens? _____
4. How many erasers? _____
5. There are _____ pencils and _____ sharpeners.

















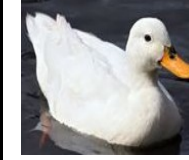

Object Chart (vertical with grids)

pens	pencils	erasers	sharpeners
			
			
			
			
			

Objects in class.

1. There are _____ pencils.
2. There are _____ sharpeners
3. How many pens? _____
4. How many erasers? _____
5. There are _____ pencils and _____ sharpeners.













Picture Chart (horizontal with grids)

bears					
tigers					
rabbits					
birds					
ducks					

Animals at the zoo.

1. How many birds? _____
2. How many ducks? _____
3. How many bears? _____
4. There are _____ tigers and _____ rabbits.
5. There are _____ birds and _____ ducks.
6. How many bears and rabbits altogether? _____
7. How many tigers and rabbits in all? _____

Picture chart (vertical with grids)

cars	buses	bicycles	helicopters	aeroplanes
				
				
				
				

Transport

1. How many helicopters? _____
2. How many buses? _____
3. There are _____ cars and _____ aeroplanes.
4. How many helicopters and aeroplanes altogether?

5. There are two bicycles. Yes/No

Object Chart (horizontal without grids)

milo



smalta



flour



milk

red
beans

At the grocery.

1. How many tins of milo? _____
2. How many bags of flour? _____
3. Four bottles of _____.
4. _____ tins of red beans.
5. How many bottles of smaltas and packs of milk altogether? _____

Object chart (vertical without grids)

cups

plates

spoons

pots

bowls



In the kitchen.

1. How many plates? _____

2. How many cups and plates in all? _____

3. _____ pots and _____ bowls.

4. Add the number of pots and bowls. _____

Picture Chart (horizontal without grids)

shirts



ties



belts



skirts



bags



At the clothes store.

1. How many bags did mummy buy? _____
2. How many skirts did mummy buy? _____
3. Daddy bought _____ ties and _____ shirts.
4. How many belts did Joel buy? _____
5. How many things altogether did they buy? _____

Picture Chart (vertical without grids)

buckets

flags

starfish

boats

lifeguards



At the beach.

1. How many starfish did Joel get? _____

2. How many flags did Faith see? _____

3. There are _____ flags and _____ boats.

4. Joel saw _____ lifeguards.

5. Joel took _____ buckets to collect starfish.

ACTIVITY: The teacher will call 10 students with their bags to the front of the class. He/ she will sort them into groups of bag colours.

Draw the bags in the object chart. Then colour the bags.

Object Chart for bag colours

black				
blue				
red				
yellow				

1. How many black bags? _____
2. How many blue bags? _____
3. _____ red bags and _____ yellow bags.
4. How many bags in all? _____

ACTIVITY: The teacher will call 10 students with their pencils to the front of the class. He/she will sort them into pencil colours. Then help them complete the chart.

Object Chart for pencil colours.

black				
blue				
yellow				
red				

1. How many black pencils? _____
2. How many blue pencils? _____
3. _____ yellow and _____ red pencils.
4. Which colour has more? _____
5. Which colour has less? _____

VOCABULARY FOR STATISTICS



Sort the groceries



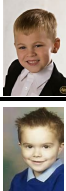
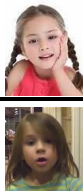
groups




object chart

pencils	sharpeners
	

picture chart

boys	girls
	

same



more




more eggs


more than



less than



less



less eggs

fewer



fewer
cupcakes

many

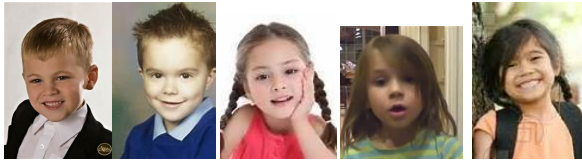


two bulbs



There are **many** bulbs
on the tree.

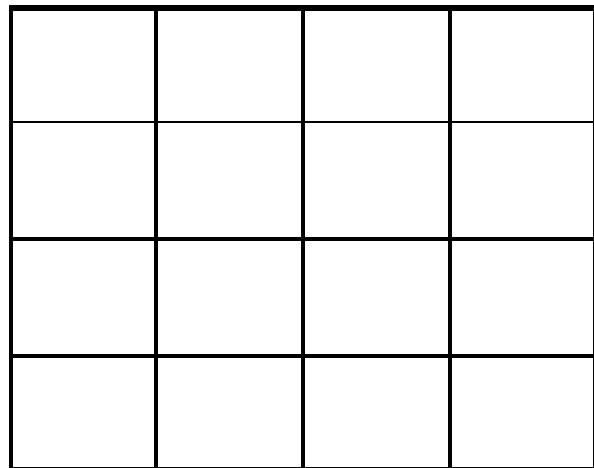
altogether



1 2 3 4 5

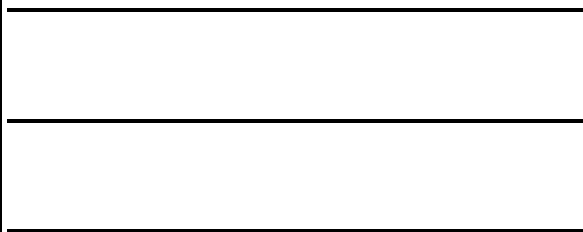
5 children **altogether**

grid



across

These lines go **across**



down

These lines go **down**

