

1

a) Draw **half** the number of shapes in the picture.



b) Draw **one third** of the number of shapes in the picture.

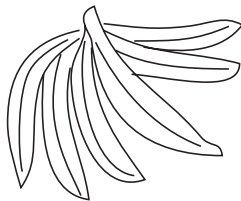



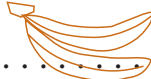
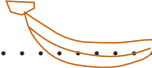
c) Draw **one quarter** of the number of shapes in the picture.



2

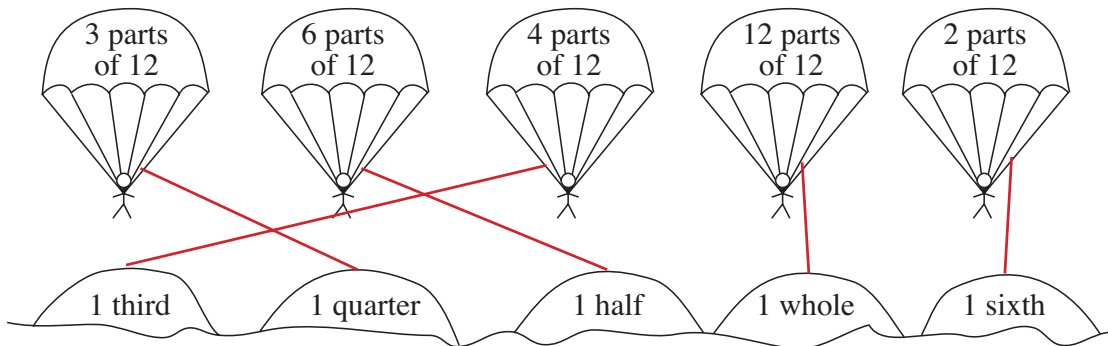
There are 6 bananas in this bunch. Draw the bananas and fill in the number.



- a) **1 half** of the bunch 
- b) **1 third** of the bunch 
- c) **1 sixth** of the bunch 









3

Where will the parachutes land? Join them up to the correct hills. 



4

Draw how many dumplings there are and write the amount in the box if:

- a)  is **1 half** of 
- b)  is **1 fifth** of 
- c)  is **1 third** of 
- d)  is **1 quarter** of 

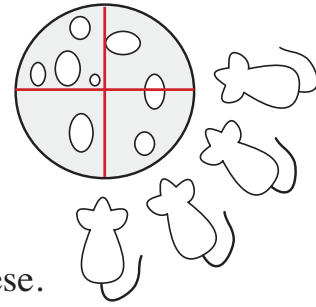
5

Draw a line 12 cm long and divide it into **thirds**. Each **third** is cm.



1

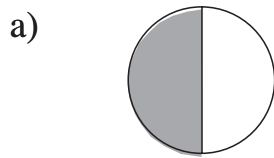
Four mice have found a lump of cheese.
Draw where they should cut it so that they each have an equal amount.



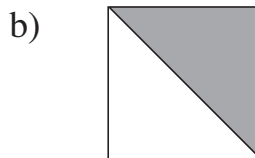
Each mouse has **1 quarter** of the cheese.

2

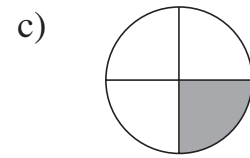
Write below each shape what part of it is shaded.



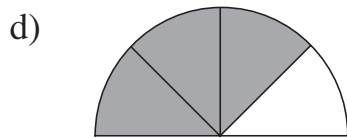
1 half



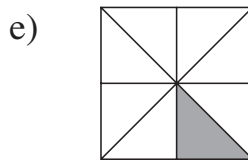
1 half



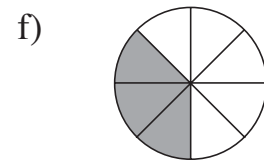
1 quarter



3 quarters



1 eighth



3 eighths

3

a) We have planted *red* roses in **2 eighths** of the garden. Colour it *red*.

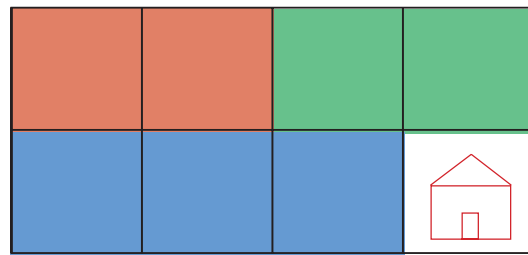
b) We have planted *blue* forget-me-nots in **3 eighths** of the garden. Colour it *blue*.

c) We have planted grass in **2 eighths** of the garden. Colour it *green*.

d) Our house is built on the remaining part of the garden. Draw it in.

What part of the garden does the house take up? **1 eighth**

E.g:



4

Tortoise and Snail are having a race. Colour the animal who is ahead.



has covered **1 quarter** of 1 metre: **25 cm**



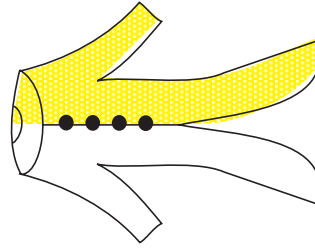
has covered **3 fifths** of 50 cm: **30 cm**

1

These things belong to a clown.

Colour:

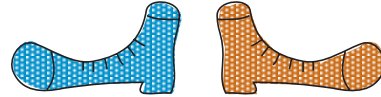
a) **1 half** of his coat *yellow*



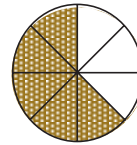
b) **3 quarters** of his stick *green*



c) **1 half** of the pair of shoes *blue* and the other **half** *red*



d) **5 eighths** of his cake *brown*.



2

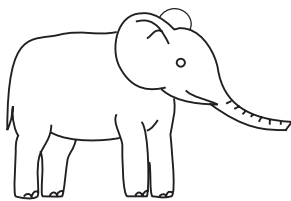
Complete the sentences by drawing or writing.

a)  is 1 third of 6 rabbits

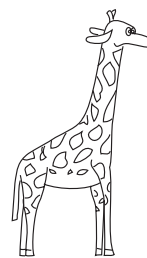
b)  is three quarters of 

c)  is one half of 

3



drank 24 litres of water.



drank **3 quarters** of that amount.

How much water did they drink altogether?

Calculation: $G: 24 \text{ litres} \div 4 \times 3 = 18 \text{ litres}$
 $E + G = 24 \text{ litres} + 18 \text{ litres}$
 $= 42 \text{ litres}$

Answer: 4 2 litres

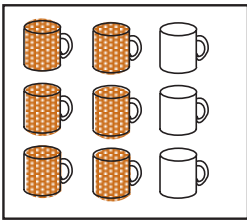
4

Draw a line of length 8 cm. Draw over **3 quarters** of it in *red*.

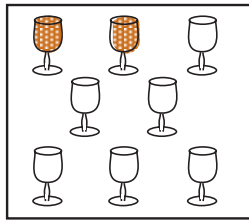


1

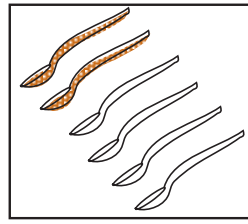
Colour:



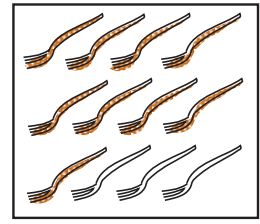
2 thirds



1 quarter



2 sixths



3 quarters

2

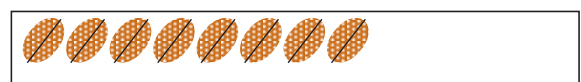
Draw how many nuts there are if:



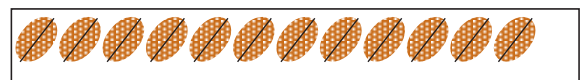
is 1 quarter



is 3 eighths

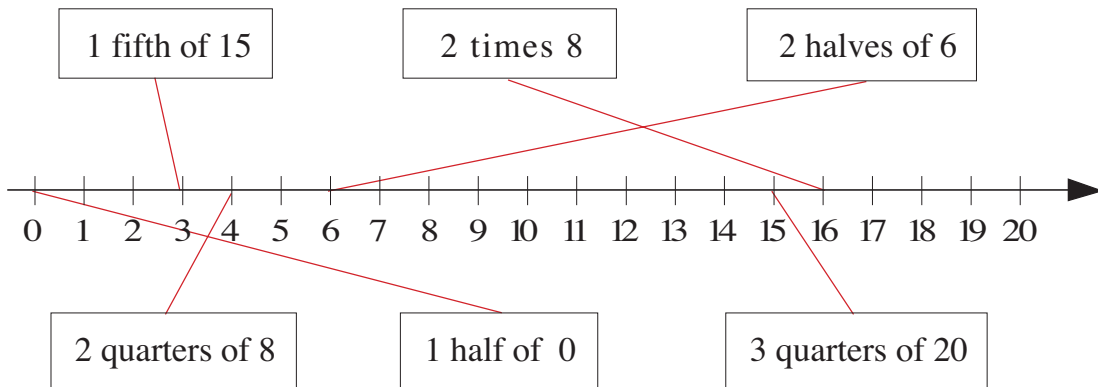
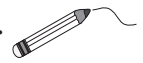


is 2 sixths



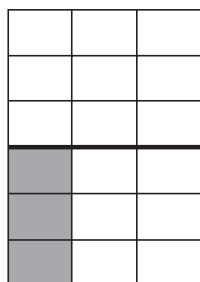
3

Join up the values to the corresponding points on the number line.

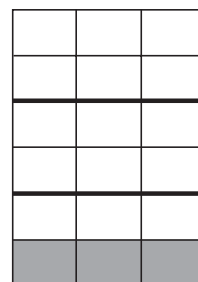


4

Compare the shaded parts. Which is more? Write in the correct sign.



=



1 third of a half




1 half of a third

1


Sally and Susy Squirrel want to divide up the acorns they collected so that they both have an equal amount.

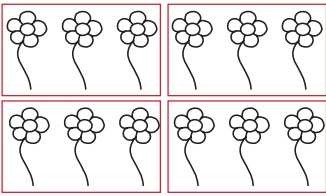
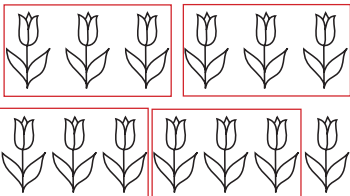
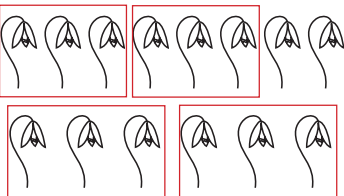


How could they do it? Complete the table.


Number of 	10	8	11	15	18	7	16	13	16
 each	5	4	5	7	9	3	8	6	8
 remaining	0	0	1	1	0	1	0	1	0

2

We want to put 3 flowers into each vase. How many vases will we fill and how many flowers will remain? Fill in the missing numbers. 

		
$12 = 3 \times \boxed{4} + \triangle \boxed{0}$	$13 = 3 \times \boxed{4} + \triangle \boxed{1}$	$14 = 3 \times \boxed{4} + \triangle \boxed{2}$

3

A toy shop bought 35 teddy bears. The shop assistant could fit only 3 bears on each shelf. She put the remainder in the window. 

How many shelves were used? How many bears were put in the window?

$$35 \div 3 = 11, \text{ remainder } 2$$

Answer: 11 shelves were used. 2 bears were put in the window.

4

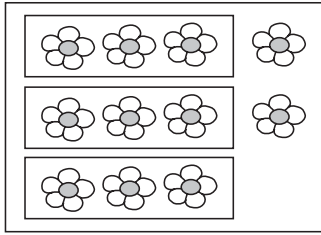
Fill in the missing numbers.

- | | | |
|---------------------------|---------------------------|---------------------------|
| a) $40 + \boxed{20} = 60$ | b) $\boxed{30} + 50 = 80$ | c) $30 + \boxed{20} = 50$ |
| $46 + \boxed{20} = 66$ | $\boxed{35} + 50 = 85$ | $38 + \boxed{20} = 58$ |
| $40 + \boxed{29} = 69$ | $\boxed{30} + 57 = 87$ | $\boxed{30} + 28 = 58$ |
| $70 - \boxed{29} = 41$ | $\boxed{60} - 36 = 24$ | $\boxed{90} - 48 = 42$ |
| $66 - \boxed{21} = 45$ | $\boxed{64} - 6 = 58$ | $92 - \boxed{8} = 84$ |
| $75 - \boxed{29} = 46$ | $\boxed{64} - 36 = 28$ | $\boxed{92} - 48 = 44$ |

1

What do the pictures tell us? Write equations about them.

a)



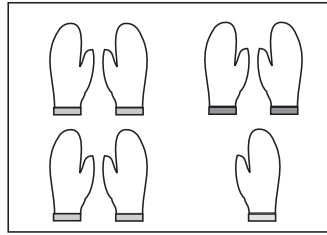
$$3 \times 3 + 2 = 11$$

$$11 \div 3 = 3,$$

remainder 2

$$(11 - 2) \div 3 = 3$$

b)



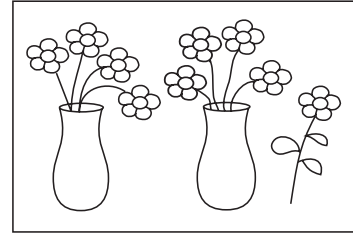
$$3 \times 2 + 1 = 7$$

$$7 \div 2 = 3,$$

remainder 1

$$(7 - 1) \div 2 = 3$$

c)



$$2 \times 4 + 1 = 9$$

$$9 \div 4 = 2,$$

remainder 1

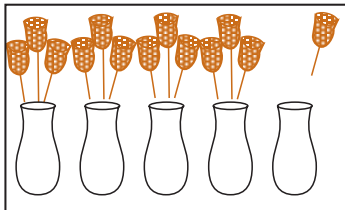
$$(9 - 1) \div 4 = 2$$

2

Alice has been given some flowers. She wants to put 3 flowers in each vase. How many vases will she fill and how many flowers remain?

Draw in the flowers and write equations about the pictures, if she had:

a) 13 flowers

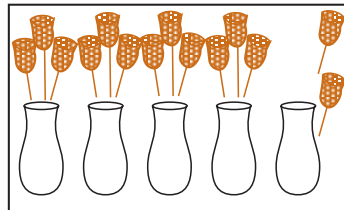


$$13 \div 3 = 4,$$

remainder 1

$$13 = 4 \times 3 + 1$$

b) 14 flowers

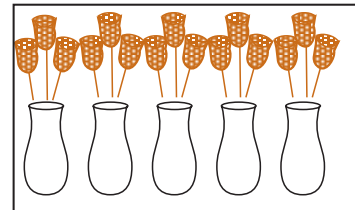


$$14 \div 3 = 4,$$

remainder 2

$$14 = 4 \times 3 + 2$$

c) 15 flowers



$$15 \div 3 = 5$$

$$15 = 5 \times 3$$

3

A photo album can hold only 4 photos on each page. How many pages will be filled and how many photos will remain if there are:

a) 24 photos

6 pages

remainder ..0..

b) 25 photos

6 pages

remainder ..1..

c) 26 photos

6 pages

remainder ..2..

d) 27 photos?

6 pages

remainder ..3..

4

$$a) \quad 27 + 35 = 28 + \begin{array}{|c|c|} \hline 3 & 4 \\ \hline \end{array}$$

$$34 + 39 = 24 + \begin{array}{|c|c|} \hline 4 & 9 \\ \hline \end{array}$$

$$68 + 19 = \begin{array}{|c|c|} \hline 6 & 9 \\ \hline \end{array} + 18$$

$$b) \quad 73 - 47 = 74 - \begin{array}{|c|c|} \hline 4 & 8 \\ \hline \end{array}$$

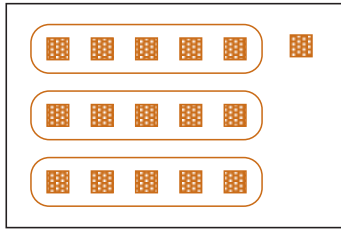
$$92 - 35 = 82 - \begin{array}{|c|c|} \hline 2 & 5 \\ \hline \end{array}$$

$$85 - 49 = \begin{array}{|c|c|} \hline 8 & 2 \\ \hline \end{array} - 46$$

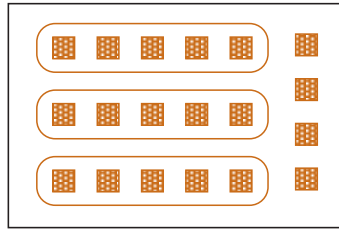
1

Write in the missing numbers. Draw pictures to match the calculations.

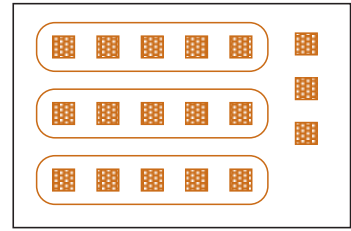
a) $3 \times 5 + 1 = 16$ b) $3 \times 5 + 4 = 19$ c) $3 \times 5 + 3 = 18$



$16 \div 5 = 3$
remainder 1






$19 \div 5 = 3$
remainder 4



$18 \div 5 = 3$
remainder 3

2

Grandad wants to put his 35 rabbits into hutches, with an equal number of rabbits in each hutch. Complete the table.

Number of 	35	35	35	35	35	35	35	35	35
 per hutch	2	3	4	5	6	7	8	9	10
hutches	17	11	8	7	5	5	4	3	3
 remaining	1	2	3	0	5	0	3	8	5

3

The children were playing a game and had to stand in rows. If they stood 2, 3 or 4 in a row, there was always 1 child left out.

What was the smallest possible number of children who played the game? Try these numbers. Write a \times or a \checkmark to show whether they are possible.

2	3	4	5	6	7	8	9	10	11	12	13	14	15	Answer:
\times	\times	\times	\times	\times	\times	\times	\times	\times	\times	\times	\checkmark	\times	\times	

4

Fill in the missing numbers.

a) $65 + 30 = 95$ b) $70 - 20 = 50$ c) $68 - 43 = 25$

$35 + 14 = 49$ $60 - 30 = 30$ $48 - 16 = 32$

$72 + 4 = 76$ $85 - 30 = 55$ $92 - 11 = 81$

1

A school was taking its pupils on a trip on a steam railway.
The carriages in the train were so small that they could seat only 6 people.
Complete the table to show how many carriages were needed.

Number of		24	25	26	27	28	29	30
Children								
Full carriages		4	4	4	4	4	4	5
Children remaining		0	1	2	3	4	5	0

2

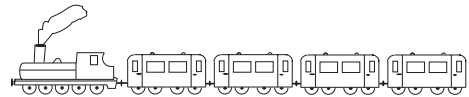
How many weeks and days are there in each month? Fill in the table.

	Months											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Number of days	31	28/29	31	30	31	30	31	31	30	31	30	31
Number of weeks	4	4	4	4	4	4	4	4	4	4	4	4
plus extra days	3	0/1	3	2	3	2	3	3	2	3	2	3

3

A train had carriages which could seat 8 people. Three carriages were full and the 4th carriage was half full.

How many passengers were on the train ?



Calculation: $3 \times 8 + 4 = 28$

Answer: **There were 28 passengers on the train.**

4

Practise calculation.



- | | | |
|---|---|--|
| a) $18 + 6 =$ <input type="text" value="2"/> <input type="text" value="4"/> | b) $6 \times 4 =$ <input type="text" value="2"/> <input type="text" value="4"/> | c) $24 +$ <input type="text" value="1"/> <input type="text" value="2"/> $= 36$ |
| $36 + 8 =$ <input type="text" value="4"/> <input type="text" value="4"/> | $3 \times 7 =$ <input type="text" value="2"/> <input type="text" value="1"/> | $18 +$ <input type="text" value="3"/> <input type="text" value="6"/> $= 54$ |
| $48 + 5 =$ <input type="text" value="5"/> <input type="text" value="3"/> | $9 \times 6 =$ <input type="text" value="5"/> <input type="text" value="4"/> | <input type="text" value="4"/> <input type="text" value="2"/> $- 24 = 18$ |
| $54 - 9 =$ <input type="text" value="4"/> <input type="text" value="5"/> | $24 \div 6 =$ <input type="text" value="4"/> | <input type="text" value="5"/> <input type="text" value="6"/> $- 18 = 38$ |
| $36 - 8 =$ <input type="text" value="2"/> <input type="text" value="8"/> | $35 \div 5 =$ <input type="text" value="7"/> | $27 \div$ <input type="text" value="7"/> $= 3$ |
| $60 - 4 =$ <input type="text" value="5"/> <input type="text" value="6"/> | $48 \div 6 =$ <input type="text" value="8"/> | <input type="text" value="7"/> <input type="text" value="2"/> $\div 8 = 9$ |

1

In a farmyard there are hens and rabbits. They have 52 legs altogether. How many hens and how many rabbits could there be in the farmyard?

Complete the table. Write calculations for some of the columns.

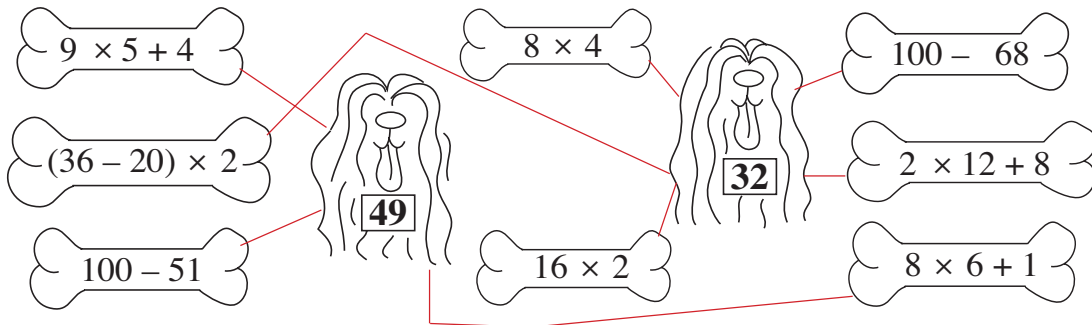
Number of

	12	6	10	2	0	4	14	8	18	20	22	24	16	26
	7	10	8	12	13	11	6	9	4	3	2	1	5	0

Calculations: E.g: $12 \times 2 + 7 \times 4 = 52$ $6 \times 2 + 10 \times 4 = 52$
 $10 \times 2 + 8 \times 4 = 52$ $2 \times 2 + 12 \times 4 = 52$ $0 \times 2 + 13 \times 4 = 52$

2

Match up the dogs to their bones. Join them up or colour them. 



$9 \times 5 + 4$
 $(36 - 20) \times 2$
 $100 - 51$
 8×4
 $100 - 68$
 $2 \times 12 + 8$
 16×2
 $8 \times 6 + 1$

3

Practise multiplication.

- | | | |
|---|--|--|
| a) $9 \times 9 =$ <input type="text" value="81"/> | b) $10 \times 8 =$ <input type="text" value="80"/> | c) $1 \times 8 =$ <input type="text" value="8"/> |
| $6 \times 5 =$ <input type="text" value="30"/> | $3 \times 2 =$ <input type="text" value="6"/> | $9 \times 7 =$ <input type="text" value="63"/> |
| $8 \times 8 =$ <input type="text" value="64"/> | $1 \times 4 =$ <input type="text" value="4"/> | $2 \times 9 =$ <input type="text" value="18"/> |
| $10 \times 7 =$ <input type="text" value="70"/> | $5 \times 5 =$ <input type="text" value="25"/> | $4 \times 5 =$ <input type="text" value="20"/> |
| $7 \times 8 =$ <input type="text" value="56"/> | $7 \times 7 =$ <input type="text" value="49"/> | $21 \times 3 =$ <input type="text" value="63"/> |

4

Practise addition and subtraction.

- | | | |
|---|---|---|
| a) $56 + 7 =$ <input type="text" value="63"/> | b) $26 + 9 =$ <input type="text" value="35"/> | c) $35 - 7 =$ <input type="text" value="28"/> |
| $26 + 8 =$ <input type="text" value="34"/> | $15 + 72 =$ <input type="text" value="87"/> | $81 - 6 =$ <input type="text" value="75"/> |
| $39 + 5 =$ <input type="text" value="44"/> | $4 + 38 =$ <input type="text" value="42"/> | $76 - 9 =$ <input type="text" value="67"/> |
| $7 + 68 =$ <input type="text" value="75"/> | $92 - 5 =$ <input type="text" value="87"/> | $57 - 8 =$ <input type="text" value="49"/> |
| $5 + 48 =$ <input type="text" value="53"/> | $52 - 4 =$ <input type="text" value="48"/> | $48 - 9 =$ <input type="text" value="39"/> |

1

Write in the suitable signs. (+, -, ×, ÷)

E.g:

a) $40 \div 4 \div 5 = 2$

b) $40 + 4 + 5 = 49$

$40 \div 4 + 5 = 15$

$40 \div 4 \times 5 = 50$

$40 \div 4 - 5 = 5$

$40 - 4 - 5 = 31$

2

What is the connection between the shapes? Complete the table.

Write the rule in different ways.

	5	6	1	7	3	6	1	8	1
	4	3	4	1	3	2	9	3	2
	18	18	10	16	12	16	20	22	6

$$\text{Moon} = 2 \times \text{Star} + 2 \times \text{Sun} \quad \text{Star} = \text{Moon} \div 2 - \text{Sun} \quad \text{Sun} = \text{Moon} \div 2 - \text{Star}$$

3

Practise addition and subtraction.

a) $36 + 18 = 54$ b) $76 + 16 = 92$ c) $65 - 29 = 36$

$25 + 29 = 54$ $33 + 29 = 62$ $52 - 36 = 16$

$56 + 17 = 73$ $44 + 28 = 72$ $57 - 19 = 38$

$47 + 35 = 82$ $72 - 35 = 37$ $48 - 29 = 19$

$34 + 29 = 63$ $61 - 27 = 34$ $86 - 38 = 48$

$29 + 39 = 68$ $83 - 58 = 25$ $94 - 77 = 17$

4

Practise multiplication.

a) $54 = 6 \times 9$ b) $30 = 10 \times 3$ c) $0 = 2 \times 0$

$20 = 10 \times 2$ $0 = 0 \times 9$ $3 = 1 \times 3$

$10 = 10 \times 1$ $32 = 4 \times 8$ $0 = 0 \times 4$

$36 = 6 \times 6$ $48 = 8 \times 6$ $35 = 5 \times 7$

$14 = 7 \times 2$ $9 = 1 \times 9$ $21 = 7 \times 3$

$0 = 3 \times 0$ $2 = 2 \times 1$ $50 = 10 \times 5$

1

I am going to toss a coin once. How certain can I be of the result?
Join up the statements on the left to the correct labels on the right.

I will throw a head.

I will throw a tail.

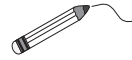
I will throw a head **and** a tail.

I will throw a head **or** a tail.

Certain

**Possible, but
not certain**

Impossible



2

Throw a dice on your desk 10 times. Keep a tally of the numbers thrown in the table. Fill in the last column to show how often you threw each number.

	Throws										
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	Total
• 1											
• • 2											
•• • 3											
•• •• 4											
••• • 5											
••• •• 6											

3

I am going to throw a dice once. How certain can I be of the result?
Join up the statements at the sides to the correct labels in the middle.

I will throw a 4.

I will throw a 2 or a 6.

I will throw a 1 and a 5.

I will throw a 7.

Certain

**Possible, but
not certain**

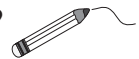
Impossible

I will throw a number < 3.

I will throw a number < 1.

I will throw an even number.

I will throw a number < 9.



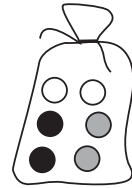
4

I am going to toss a coin twice.
Write the possible results in the table.

	Throws	
	1st throw	2nd throw
Head		Head
		Tail
Tail		Head
		Tail

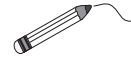
1

There are 2 white, 2 black and 2 striped marbles in a bag. The bag is tied with cord and you cannot see inside.



Join up the the statements on the left to the labels on the right.

How certain can I be that if, with my eyes shut:



- a) I take out 1 marble, it will be black.
- b) I take out 2 marbles, they will be the same colour.
- c) I take out 2 marbles, they will be different colours.
- d) I take out 5 marbles, at least 2 of them will be the same colour.
- e) I take out 4 marbles, they will all be different colours.

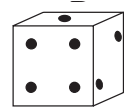
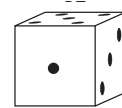
Certain

Possible but not certain

Impossible

2

- a) If we were to throw 2 dice at the same time, how many different results could there be? **36**..
Continue writing them out, with A's number first.



A

B

1 + 6, 1 + 5, 1 + 4, 1 + 3, 1 + 2, 1 + 1, 2 + 6, 2 + 5, 2 + 4, 2 + 3, 2 + 2, 2 + 1,
3 + 6, 3 + 5, 3 + 4, 3 + 3, 3 + 2, 3 + 1, 4 + 6, 4 + 5, 4 + 4, 4 + 3, 4 + 2, 4 + 1
5 + 6, 5 + 5, 5 + 4, 5 + 3, 5 + 2, 5 + 1, 6 + 6, 6 + 5, 6 + 4, 6 + 3, 6 + 2, 6 + 1

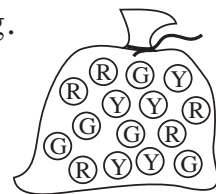
- b) Which total is: i) the smallest possible
- ii) the largest possible?

$1 + 1 = 2$

$6 + 6 = 12$

3

We have put 5 red, 5 yellow and 5 green marbles into a bag. The bag is tied with cord and you cannot see inside.



If you take out some marbles with your eyes closed, what is the smallest number of marbles you should take out to make certain that you have **at least**:

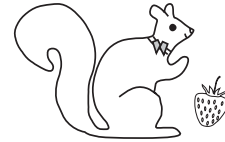
- a) 1 red marble 11 b) 1 yellow marble 11
- c) 2 green marbles 12
- d) 3 marbles of the same colour? 7

$2R + 2Y + 2G = 6$
Next marble is R, Y or G, making 7 in total

1



Mrs Hedgehog and Mrs Squirrel always take the same number of strawberries home for their babies.



There are 8 baby hedgehogs and 4 baby squirrels. How many strawberries will each baby get? Complete the table.

taken home	8	24	40	32	48	16	56	80	72	64
per baby	2	6	10	8	12	4	14	20	18	16
per baby	1	3	5	4	6	2	7	10	9	8

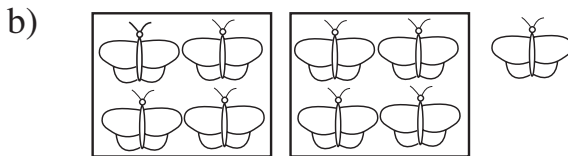
2

Write a division about each picture. Check with a multiplication.



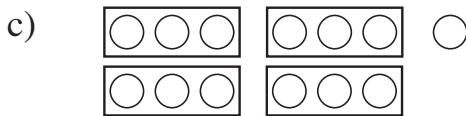
$7 \div 2 = 3, \text{ remainder } 1$

$3 \times 2 + 1 = 7$



$9 \div 4 = 2, \text{ remainder } 1$

$2 \times 4 + 1 = 9$



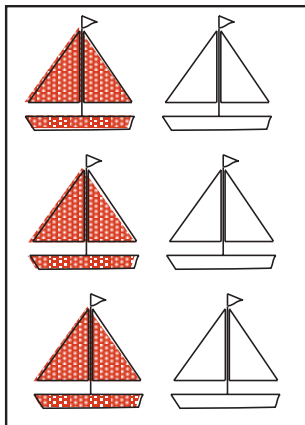
$13 \div 3 = 4, \text{ remainder } 1$

$4 \times 3 + 1 = 13$

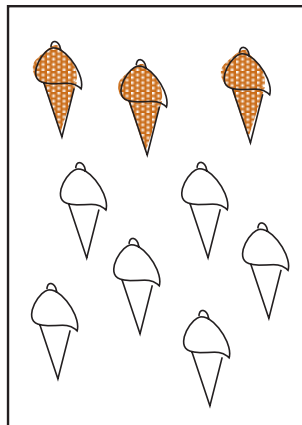
3

Colour the amount asked for in each picture.

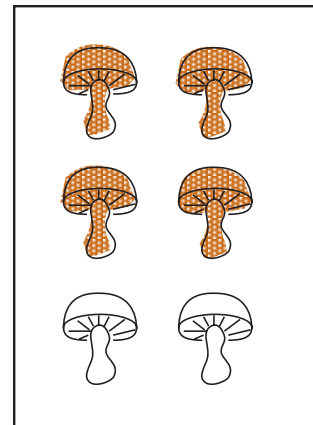
a) 1 half



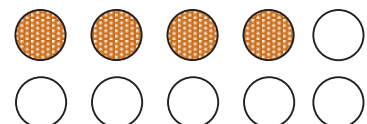
b) 1 third



c) 4 sixths

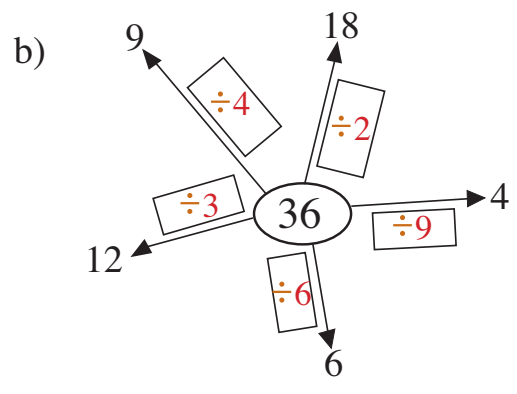
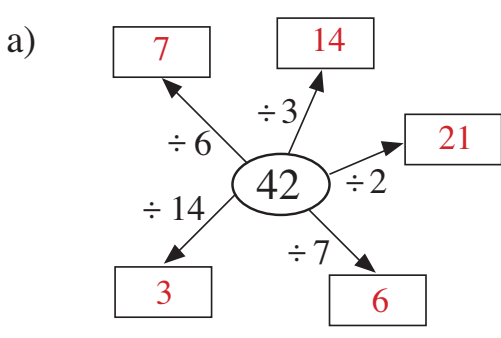


d) Draw 10 marbles. Colour 2 fifths of them red.



1

Fill in the missing numbers and signs. (+, -, ×, ÷)



2

Pete has 48 stamps, 8 times more than the number Laura has.

a) How many stamps does Laura have?

Calculation:

$$\boxed{48} \div \boxed{8} = \boxed{6}$$

Answer:

Laura has 6 stamps.

b) How many stamps do they have altogether?

Calculation:

$$\boxed{48} + \boxed{6} = \boxed{54}$$

Answer:

They have 54 stamps altogether.

3

Practise division. Check with multiplication.

a) $17 \div 2 = \boxed{8}$
 remainder $\boxed{1}$

Check

$$\boxed{8} \times 2 + \boxed{1} = 17$$

$22 \div 2 = \boxed{11}$
 remainder $\boxed{0}$

Check

$$\boxed{11} \times 2 = 22$$

$14 \div 2 = \boxed{7}$
 remainder $\boxed{0}$

Check

$$\boxed{7} \times 2 = 14$$

b) $28 \div 3 = \boxed{9}$
 remainder $\boxed{1}$

Check

$$\boxed{9} \times 3 + \boxed{1} = 28$$

$36 \div 3 = \boxed{12}$
 remainder $\boxed{0}$

Check

$$\boxed{12} \times 3 = 36$$

$18 \div 3 = \boxed{6}$
 remainder $\boxed{0}$

Check

$$\boxed{6} \times 3 = 18$$

c) $41 \div 4 = \boxed{10}$
 remainder $\boxed{1}$

Check

$$\boxed{10} \times 4 + \boxed{1} = 41$$

$32 \div 4 = \boxed{8}$
 remainder $\boxed{0}$

Check

$$\boxed{8} \times 4 = 32$$

$0 \div 4 = \boxed{0}$
 remainder $\boxed{0}$

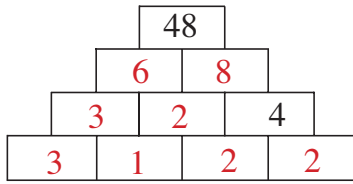
Check

$$\boxed{0} \times 4 = 0$$

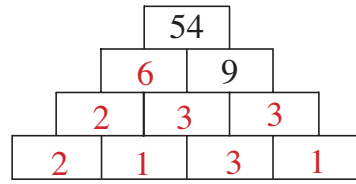
1

Each number is the **product** of the 2 numbers directly below it. Fill in the missing numbers.

a)

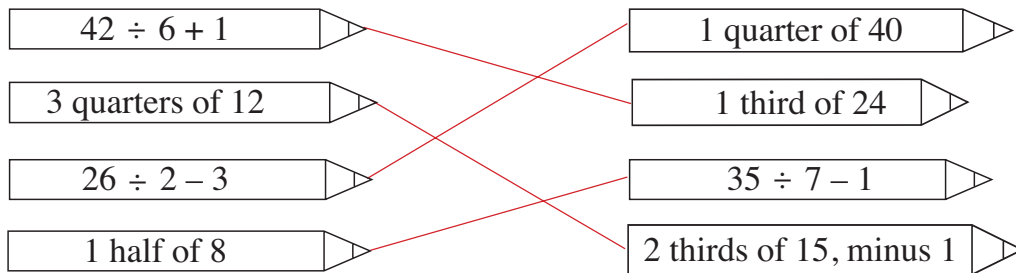
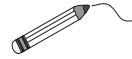


b)



2

Join up the equal pairs.



3

Practise division. Check with multiplication.

a) $16 \div 5 = \boxed{3}$
 remainder $\boxed{1}$
Check

$3 \times 5 + 1 = 16$

$60 \div 5 = \boxed{1} \boxed{2}$
 remainder $\boxed{0}$
Check

$12 \times 5 = 60$

$40 \div 5 = \boxed{8}$
 remainder $\boxed{0}$
Check

$8 \times 5 = 40$

b) $34 \div 6 = \boxed{5}$
 remainder $\boxed{4}$
Check

$5 \times 6 + 4 = 34$

$48 \div 6 = \boxed{8}$
 remainder $\boxed{0}$
Check

$8 \times 6 = 48$

$66 \div 6 = \boxed{1} \boxed{1}$
 remainder $\boxed{0}$
Check

$11 \times 6 = 66$

c) $14 \div 7 = \boxed{2}$
 remainder $\boxed{0}$
Check

$2 \times 7 = 14$

$57 \div 7 = \boxed{8}$
 remainder $\boxed{1}$
Check

$8 \times 7 + 1 = 57$

$77 \div 7 = \boxed{1} \boxed{1}$
 remainder $\boxed{0}$
Check

$11 \times 7 = 77$

4

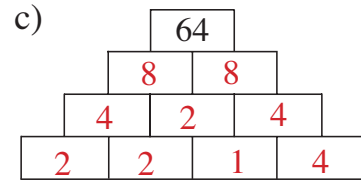
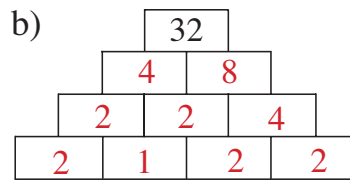
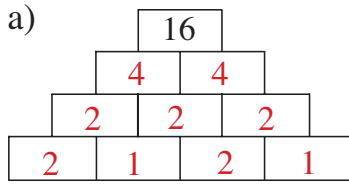
Compare the results. Write the correct sign between them ($<$, $>$, $=$)

a) $14 \times 6 \boxed{=} 10 \times 6 + 4 \times 6$ b) $32 \times 3 \boxed{>} 30 \times 3 + 2$

$9 \times 14 \boxed{=} 9 \times 7 + 9 \times 7$ $17 \times 4 \boxed{>} 8 \times 4 + 8 \times 4$

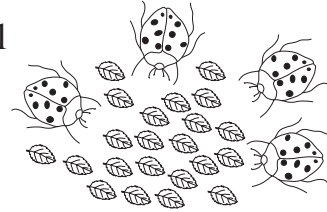
1

Each number is the **product** of the 2 numbers directly below it. Fill in the missing numbers. **For example:**



2

Four ladybirds are sharing 22 leaves so that they all have an equal amount. How many leaves will each ladybird get and how many will remain?



$$\begin{array}{|c|c|} \hline 2 & 2 \\ \hline \end{array} \div 4 = \begin{array}{|c|} \hline 5 \\ \hline \end{array}$$

remainder $\begin{array}{|c|} \hline 2 \\ \hline \end{array}$

Check: $4 \times \begin{array}{|c|} \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline 2 \\ \hline \end{array} = 22$

Answer: Each ladybird will get 5 leaves. 2 leaves will remain.

3

Practise division. Check with multiplication.

a) $26 \div 8 = \begin{array}{|c|} \hline 3 \\ \hline \end{array}$
 remainder $\begin{array}{|c|} \hline 2 \\ \hline \end{array}$

Check
 $3 \times 8 + 2 = 26$

$49 \div 8 = \begin{array}{|c|} \hline 6 \\ \hline \end{array}$
 remainder $\begin{array}{|c|} \hline 1 \\ \hline \end{array}$

Check
 $6 \times 8 + 1 = 49$

$72 \div 8 = \begin{array}{|c|} \hline 9 \\ \hline \end{array}$
 remainder $\begin{array}{|c|} \hline 0 \\ \hline \end{array}$

Check
 $9 \times 8 = 72$

b) $39 \div 9 = \begin{array}{|c|} \hline 4 \\ \hline \end{array}$
 remainder $\begin{array}{|c|} \hline 3 \\ \hline \end{array}$

Check
 $4 \times 9 + 3 = 39$

$81 \div 9 = \begin{array}{|c|} \hline 9 \\ \hline \end{array}$
 remainder $\begin{array}{|c|} \hline 0 \\ \hline \end{array}$

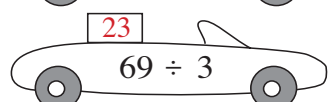
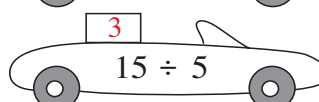
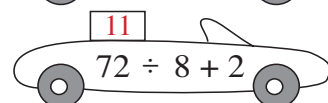
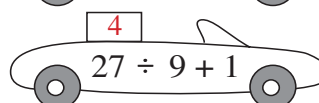
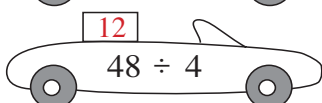
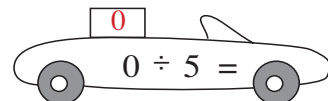
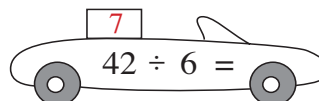
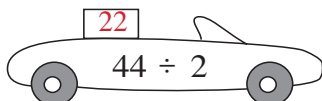
Check
 $9 \times 9 = 81$

$99 \div 9 = \begin{array}{|c|c|} \hline 1 & 1 \\ \hline \end{array}$
 remainder $\begin{array}{|c|} \hline 0 \\ \hline \end{array}$

Check
 $11 \times 9 = 99$

4

In which order will the cars pass the finishing line? Write the position numbers in the boxes. The car with the highest value will be 1st!



Write the values in **decreasing** order.

... 23 > ... 22 ... > ... 12 ... > ... 11 ... > ... 7 ... > ... 4 ... > ... 3 ... > ... 0 ...

1

Write these numbers in the correct places in the two tables.

33, 39, 42, 56, 60, 72, 89, 100,
121, 110, 137, 143, 159, 164, 177, 181, 199, 200

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25					
31		33						39	
	42							49	
				55	56				60
	62								
	72				76				
81								89	
								99	100

101	102	103				107			110
111			114						120
121	122							129	
				135		137			140
		143				147			
		153			156			159	
161			164					169	
						177			180
181							188		
191				195				199	200

a) How many 10's are in 100?

10

b) How many 100's are in 200?

2

2

Join up the amounts in the middle to the matching numbers.



one hundred			$1 \times 100 = 100$
two hundred	—		$2 \times 100 = 200$
three hundred			$3 \times 100 = 300$
four hundred	—		$4 \times 100 = 400$
five hundred			$5 \times 100 = 500$
six hundred	—		$6 \times 100 = 600$
seven hundred			$7 \times 100 = 700$
eight hundred			$8 \times 100 = 800$
nine hundred			$9 \times 100 = 900$
one thousand	—		$10 \times 100 = 1000$

3

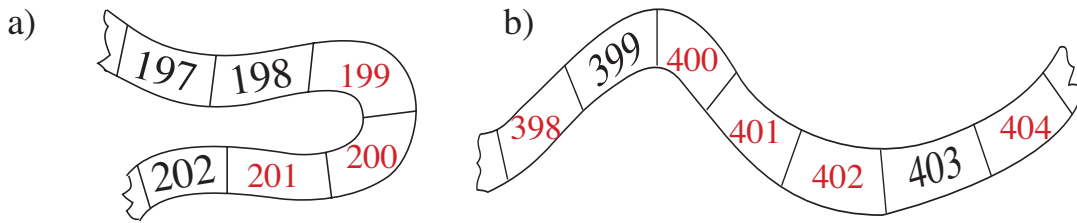
Colour in the number you think is the odd one out. Why did you choose it?

a) E.g: 24 98 **137** 67 45 *137 is the only number > 100;
137 is the only 3-digit number.*

b) E.g: 137 **210** 150 111 156 *210 is the only number > 200.*

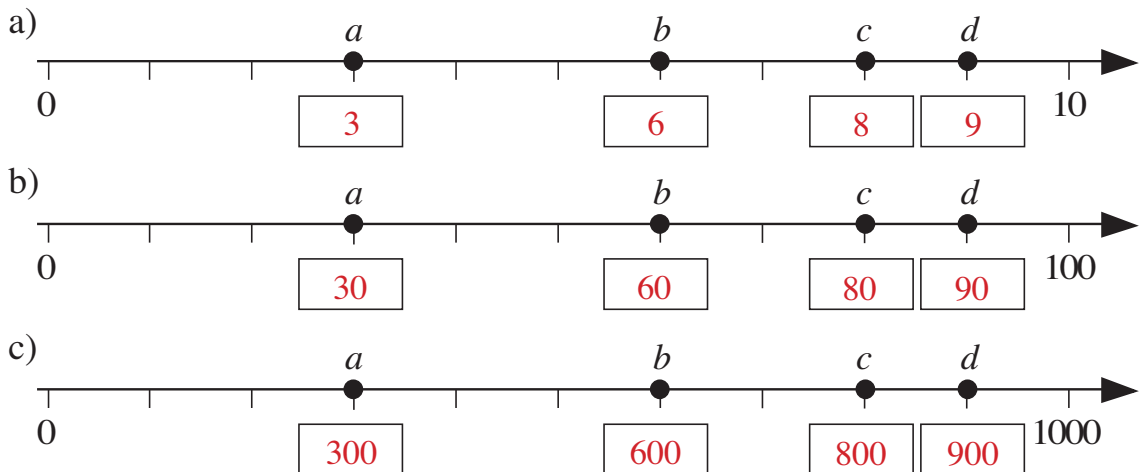
1

Write in the missing numbers.



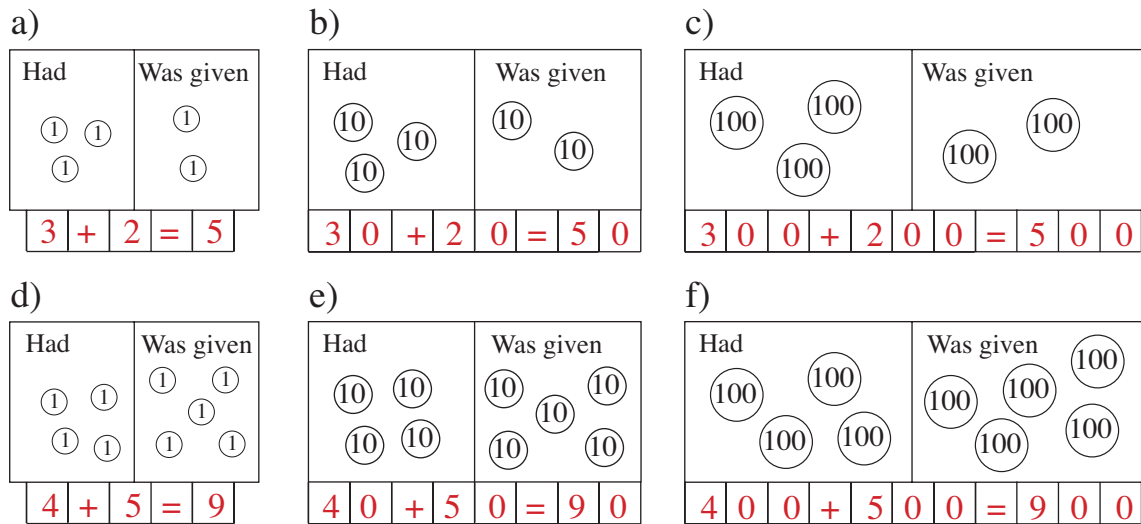
2

At which numbers have we written the letters? Write them in the boxes.



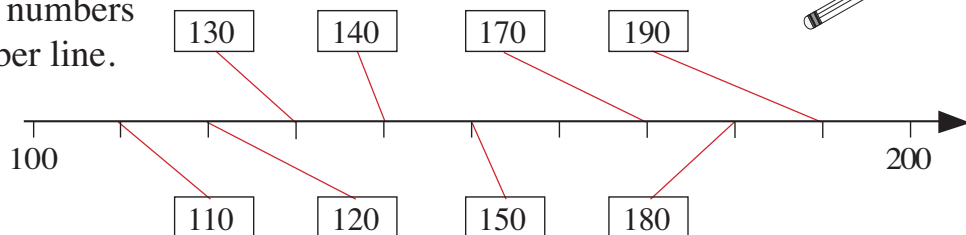
3

Write additions about the pictures.



4

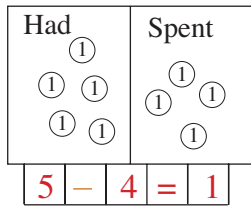
Join up the numbers to the number line.



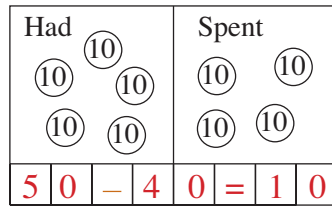
1

Write subtractions about the pictures.

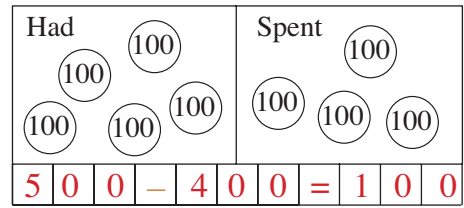
a)



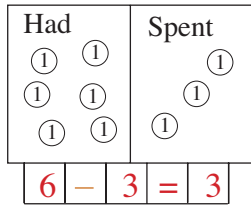
b)



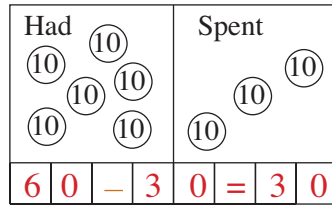
c)



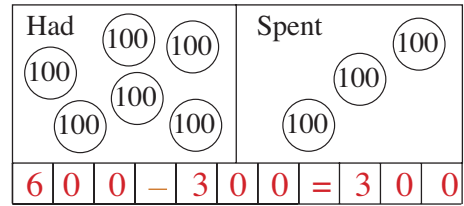
d)



e)

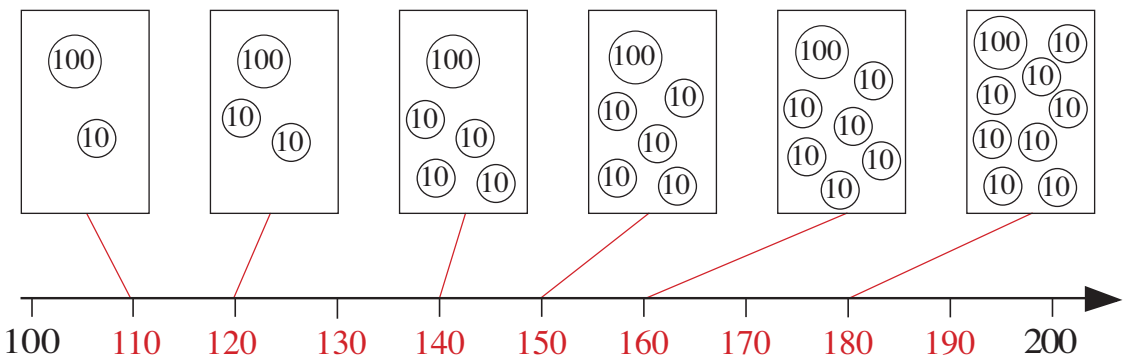
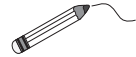


f)



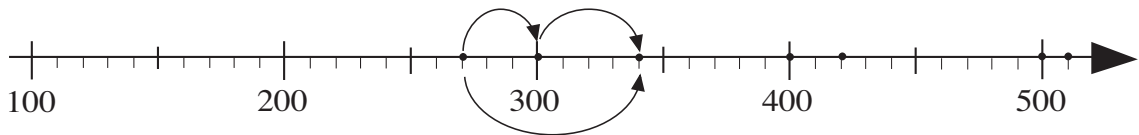
2

Join the picture to the corresponding point on the number line. Write the numbers below the number line.



3

Fill in the missing numbers. Use the number line to help you.



270 + $\boxed{30}$ = 300 340 + $\boxed{60}$ = 400 420 + $\boxed{80}$ = 500

270 + $\boxed{70}$ = 340 340 + $\boxed{80}$ = 420 420 + $\boxed{90}$ = 510

4

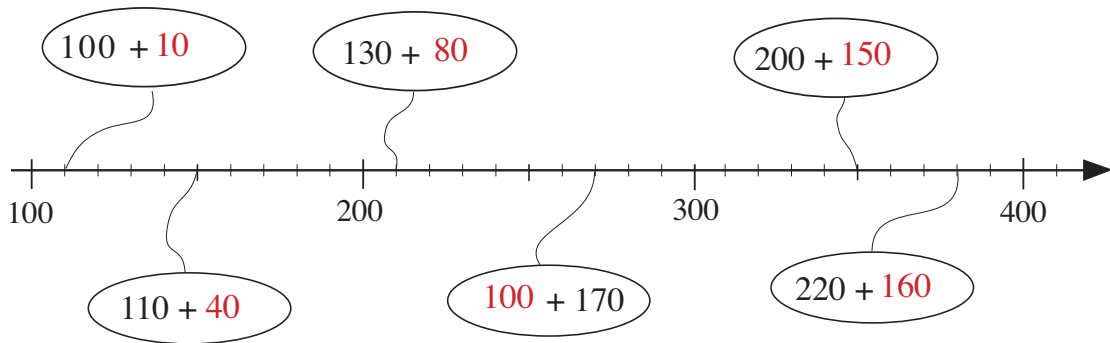
Write these numbers using digits.

a) one hundred and forty $\boxed{140}$ four hundred $\boxed{400}$

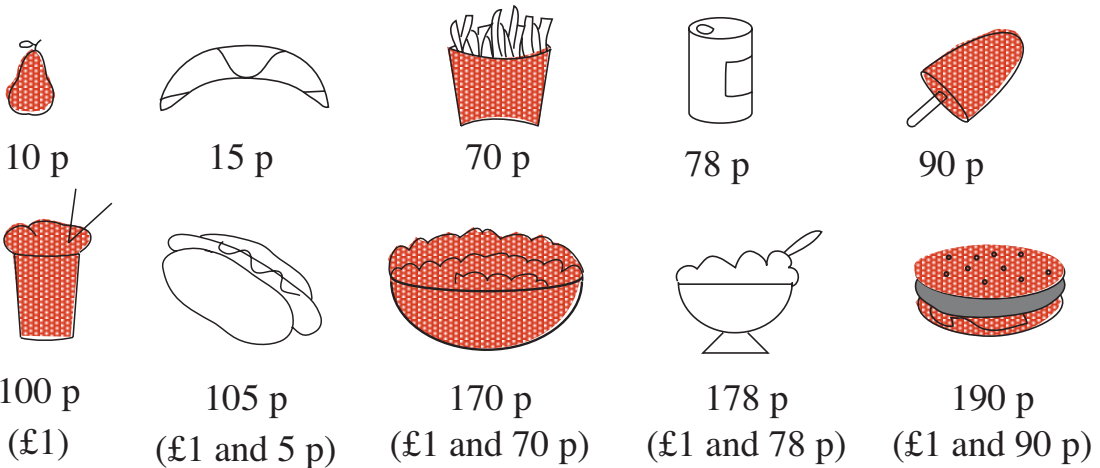
b) two hundred and ten $\boxed{210}$ five hundred $\boxed{500}$

1

Fill in the missing numbers.

**2**

Colour the items we can pay for exactly with only 10 p coins.

**3**

Practise addition and subtraction.

a) $100 + 80 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>8</td><td>0</td></tr></table>	1	8	0	b) $130 - 20 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>1</td><td>0</td></tr></table>	1	1	0
1	8	0					
1	1	0					
$100 + 8 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>0</td><td>8</td></tr></table>	1	0	8	$230 - 20 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>2</td><td>1</td><td>0</td></tr></table>	2	1	0
1	0	8					
2	1	0					
$100 + 88 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>8</td><td>8</td></tr></table>	1	8	8	$147 - 7 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>4</td><td>0</td></tr></table>	1	4	0
1	8	8					
1	4	0					
$100 + 55 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>5</td><td>5</td></tr></table>	1	5	5	$147 - 40 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>0</td><td>7</td></tr></table>	1	0	7
1	5	5					
1	0	7					
$300 + 67 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>3</td><td>6</td><td>7</td></tr></table>	3	6	7	$147 - 47 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>0</td><td>0</td></tr></table>	1	0	0
3	6	7					
1	0	0					
$300 + 84 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>3</td><td>8</td><td>4</td></tr></table>	3	8	4	$134 - 34 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>0</td><td>0</td></tr></table>	1	0	0
3	8	4					
1	0	0					
$130 + 20 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>5</td><td>0</td></tr></table>	1	5	0	$256 - 56 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>2</td><td>0</td><td>0</td></tr></table>	2	0	0
1	5	0					
2	0	0					
$130 + 2 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>3</td><td>2</td></tr></table>	1	3	2	$100 + 50 + 3 =$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td><td>5</td><td>3</td></tr></table>	1	5	3
1	3	2					
1	5	3					

1

Complete the table.

Hundreds	Tens	Units	Number in digits	Number in words
	⑩ ⑩	① ① ① ① ① ①	26	twenty-six
①00	⑩ ⑩	① ① ① ① ① ①	126	one hundred and twenty-six
①00 ①00	⑩ ⑩	① ① ① ① ① ①	226	two hundred and twenty-six
①00 ①00 ①00	⑩ ⑩	① ① ① ① ① ①	326	three hundred and twenty-six
①00 ①00 ①00 ①00 ①00	⑩ ⑩	① ① ① ① ① ①	526	five hundred and twenty-six

2

Show different ways we could we pay these amounts.

Complete the table.

There are many correct answers; some are given in the table.

	⑩p	50p	£1	£10	£20
£2	20	–	–	–	–
£2	–	4	–	–	–
£2	–	–	2	–	–
£23	–	–	23	–	–
£23	–	–	3	–	1
£23	–	6	–	2	–

3

Which of these could you buy? Draw pictures and write additions.



£1



50 p



70 p



20 p

1 apple 2 bananas $70p + 20p = 90p$	1 hot dog 1 apple $£1 + 20p = £1\ 50p$	3 packets crisps $70p + 70p + 70p = £2\ 10p$	1 apple 1 packet crisps $50p + 70p = £1\ 20p$
---	--	---	---

There are many other correct answers.

1

Complete the table. Write the **total** at the bottom of each column.

Hundreds	Tens	Units	Number in digits	Number in words
	⑩ ⑩	①	21	twenty-one
①00 ①00 ①00		① ① ① ①	304	three hundred and four
①00	⑩	① ① ①	113	one hundred and thirteen
①00 ①00 ①00	⑩ ⑩ ⑩ ⑩		350	three hundred and fifty
Total 700	80	8	788	seven hundred and eighty eight

2

Colour as many 100's, 10's and 1's as the number at the bottom shows.

a) b) c) d)

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

3

Find the rule. Complete the table. Write the rule in different ways.

☆	106	245	200	180	250	150	400	356
☾	1 ten	2 hundreds	1 ten	2 hundreds	2 hundreds	5 hundreds	11 tens	5 tens
☀	116	445	210	380	450	650	510	406

☀ = ☆ + ☾ ☾ = ☀ - ☆ ☆ = ☀ - ☾

1

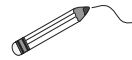
Write the total amount below each column.

a) $\begin{matrix} (100) \\ (100) \\ (100) \text{ } (1) \\ (100) \text{ } (10) \text{ } (1) \\ (100) \text{ } (10) \text{ } (1) \end{matrix}$ $\begin{matrix} (1) \\ (10) \text{ } (1) \\ (10) \text{ } (1) \\ (100) \text{ } (10) \text{ } (1) \\ (100) \text{ } (10) \text{ } (1) \end{matrix}$ c) $\begin{matrix} (100) \\ (100) \\ (100) \text{ } (1) \\ (100) \text{ } (1) \end{matrix}$ d) $\begin{matrix} (100) \\ (100) \text{ } (10) \\ (100) \text{ } (10) \\ (100) \text{ } (10) \\ (100) \text{ } (10) \end{matrix}$

$\begin{matrix} \boxed{5} & \boxed{2} & \boxed{3} \end{matrix}$ $\begin{matrix} \boxed{2} & \boxed{4} & \boxed{5} \end{matrix}$ $\begin{matrix} \boxed{4} & \boxed{0} & \boxed{2} \end{matrix}$ $\begin{matrix} \boxed{5} & \boxed{4} & \boxed{0} \end{matrix}$

2

Join up the equal numbers.



one hundred and thirty-six \rightarrow 136 \rightarrow one hundred and sixty-three

one hundred and thirty \rightarrow 163 \rightarrow three hundred and sixteen

three hundred and one \rightarrow 130 \rightarrow one hundred and twelve

one hundred and three \rightarrow 301 \rightarrow two hundred and eleven

316 \rightarrow three hundred and sixteen

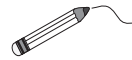
211 \rightarrow two hundred and eleven

103 \rightarrow one hundred and three

112 \rightarrow one hundred and twelve

3

Join up the equal amounts.



$500 + 130 \rightarrow 630$

$850 - 300 \rightarrow 550$

$800 - 10 \rightarrow 790$

$50 + 250 \rightarrow 300$

$100 \rightarrow 120 + 90$

$120 \rightarrow 400 - 300$

$210 \rightarrow 520 - 100$

$300 \rightarrow 100 + 20$

$420 \rightarrow 800 - 380$

4

Complete the table. The rule is: $\square - \triangle = \bigcirc$.

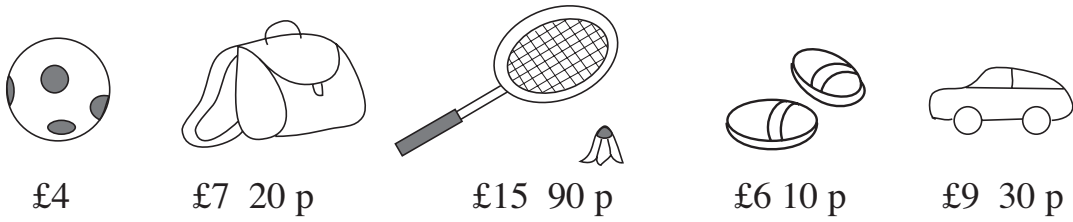
\square	£1	£3	90 p	2 litres	1 m 20 cm	3 m	1 kg	£9 10 p	4 litres 30 cl
\triangle	10 p	70 p	20 p	1 litre 80 cl	20 cm	60 cm	200 g	£8	1 litres 30 cl
\bigcirc	90 p	£2 30 p	70 p	20 cl	1 m	2 m 40 cm	800 g	£1 10 p	3 litres

$\triangle = \square - \bigcirc$

$\square = \triangle + \bigcirc$

1

Bob has only £5 notes in his wallet. He is thinking of buying one of these.



Buying which item would give him

- a) **most** change back? racket and shuttlecock ... Change: £20 - £15.90 p = £4 10 p
- b) **least** change back? car Change: £10 - £9.30 p = 70 p

2

Write the additions and subtractions in a shorter way. Write the answers too.
E.g;

- a) $80 + 80 + 80 = 3 \times 80 = 240$
- b) $25 + 25 + 25 + 25 + 25 + 25 + 25 = 7 \times 25 = 175$
- c) $70 + 70 = 2 \times 70 = 140$
- d) $100 + 100 + 100 + 100 = 4 \times 100 = 400$
- e) $250 + 250 = 2 \times 250 = 500$
- f) $120 - 30 - 30 - 30 = 120 - 3 \times 30 = 30$
- g) $150 - 50 - 50 - 50 = 150 - 3 \times 50 = 0$

3

Write in the missing numbers.

- a) $60 \xrightarrow{+20} \boxed{80} \xrightarrow{-10} \boxed{70} \xrightarrow{+70} \boxed{140} \xrightarrow{-50} \boxed{90}$
- b) $56 \xrightarrow{+28} \boxed{84} \xrightarrow{-15} \boxed{69} \xrightarrow{+70} \boxed{139} \xrightarrow{-50} \boxed{89}$
- c) $170 \xrightarrow{-30} \boxed{140} \xrightarrow{-60} \boxed{80} \xrightarrow{+50} \boxed{130} \xrightarrow{-80} \boxed{50}$
- d) $176 \xrightarrow{-30} \boxed{146} \xrightarrow{-60} \boxed{86} \xrightarrow{+80} \boxed{166} \xrightarrow{-50} \boxed{116}$

4

How many 40 cl jars can be filled from a 3 litre 20 cl tub of honey?

$320 \div 40 = 8$

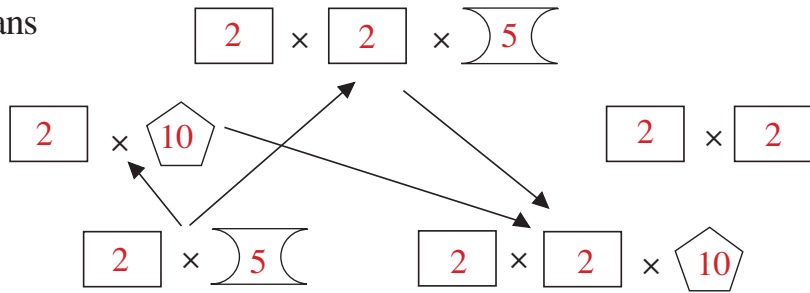
Answer: 8 jars

1

Which of the numbers 2, 5 or 10 does each shape represent?

The same shape means the same number.

The arrows point to the multiplication which has **twice** the value.



2

Practise multiplication.

- | | | |
|-----------------------------|------------------------------|------------------------------|
| a) $\boxed{6} = 6 \times 1$ | b) $\boxed{24} = 3 \times 8$ | c) $\boxed{12} = 3 \times 4$ |
| $\boxed{27} = 9 \times 3$ | $\boxed{40} = 8 \times 5$ | $\boxed{24} = 6 \times 4$ |
| $\boxed{0} = 10 \times 0$ | $\boxed{0} = 6 \times 0$ | $\boxed{15} = 3 \times 5$ |
| $\boxed{5} = 1 \times 5$ | $\boxed{40} = 10 \times 4$ | $\boxed{0} = 5 \times 0$ |
| $\boxed{10} = 5 \times 2$ | $\boxed{9} = 3 \times 3$ | $\boxed{70} = 35 \times 2$ |
| $\boxed{34} = 17 \times 2$ | $\boxed{46} = 23 \times 2$ | $\boxed{100} = 10 \times 10$ |

3

Practise division.

- | | | |
|----------------------------|---------------------------|----------------------------|
| a) $12 \div 2 = \boxed{6}$ | b) $6 \div 3 = \boxed{2}$ | c) $56 \div 7 = \boxed{8}$ |
| $27 \div 3 = \boxed{9}$ | $15 \div 5 = \boxed{3}$ | $9 \div 1 = \boxed{9}$ |
| $35 \div 7 = \boxed{5}$ | $40 \div 8 = \boxed{5}$ | $0 \div 4 = \boxed{0}$ |
| $63 \div 9 = \boxed{7}$ | $70 \div 7 = \boxed{10}$ | $4 \div 2 = \boxed{2}$ |
| $100 \div 10 = \boxed{10}$ | $8 \div 8 = \boxed{1}$ | $27 \div 3 = \boxed{9}$ |
| $72 \div 8 = \boxed{9}$ | $20 \div 4 = \boxed{5}$ | $40 \div 10 = \boxed{4}$ |

4

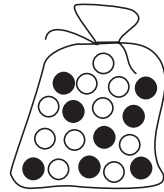
List the numbers which make the statements true.

- a) 6 tens and 5 units < 6 tens and \square units \square : **.6, 7, 8, 9**.....
- b) 7 tens and 6 units \geq \bigcirc tens and 6 units \bigcirc : **.7, 6, 5, 4, 3, 2, 1, 0**..
- c) 2 hundreds, 3 tens and 7 units > \triangle hundreds, 3 tens and 7 units
 \triangle : **0, 1**.....

1

In a bag, there are 10 white and 8 black marbles.

What is the **smallest** number of marbles you must take out of the bag (with your eyes closed) to make **certain** that you have taken out **at least**:



- | | | | |
|--------------------------------|---------------------------------|--------------------|---------------------------------|
| a) 1 white marble | <input type="text" value="9"/> | b) 1 black marble | <input type="text" value="11"/> |
| c) 5 white marbles | <input type="text" value="13"/> | d) 5 black marbles | <input type="text" value="15"/> |
| e) 1 white and 1 black marble? | <input type="text" value="11"/> | | |

2

Colour the equal amounts in the same colour.

$5 \times 2 + 2 \times 2 = 14$	$9 \times 7 + 1 \times 7 = 70$	$6 \times 3 + 6 \times 4 = 42$
$6 \times 7 + 1 \times 7 = 49$	$3 \times 2 + 4 \times 2 = 14$	$5 \times 7 + 2 \times 7 = 49$
$6 \times 2 + 6 \times 5 = 42$	$6 \times 6 + 6 \times 1 = 42$	$9 \times 7 - 2 \times 7 = 49$

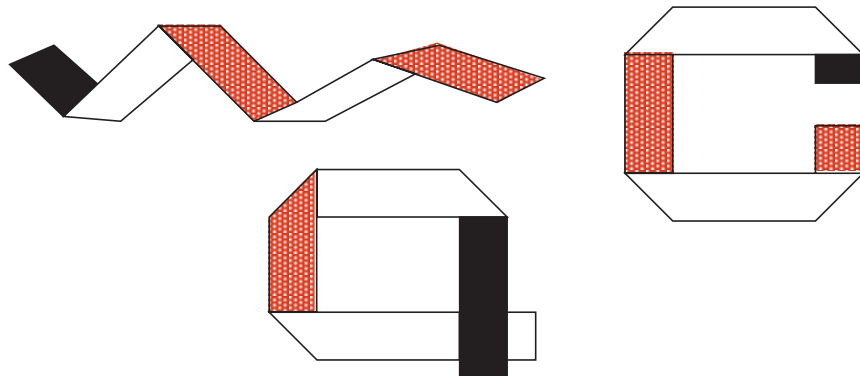
3

Do the calculations in the correct order.

- | | |
|--|---|
| a) $39 + 4 \times 6 =$ <input type="text" value="6"/> <input type="text" value="3"/> | b) $4 \times 7 + 6 \times 8 - 19 =$ <input type="text" value="5"/> <input type="text" value="7"/> |
| $26 + 8 \times 7 =$ <input type="text" value="8"/> <input type="text" value="2"/> | $9 \times 5 - 3 \times 6 + 35 =$ <input type="text" value="6"/> <input type="text" value="2"/> |
| $73 - 5 \times 9 =$ <input type="text" value="2"/> <input type="text" value="8"/> | $72 \div 8 + 7 \times 9 - 27 =$ <input type="text" value="4"/> <input type="text" value="5"/> |
| $95 - 3 \times 9 =$ <input type="text" value="6"/> <input type="text" value="8"/> | $8 \times 8 - 54 \div 6 + 18 =$ <input type="text" value="7"/> <input type="text" value="3"/> |

4

One side of the paper strip is white and the other side is black. Continue colouring the parts of the paper strips which should be black.



1

Colour the odd one out. Write the reason for your choice.

1 third of twelve

1 half of 8

1 quarter of 16

1 sixth of 6

Reason : 1 sixth of 6 = 1. All other answers = 4.

2

Fill in the missing numbers.

a) $6 \times \boxed{8} = 48$	b) $\boxed{5} \times 8 = 40$	c) $2 \times \boxed{2} = 4$
$3 \times \boxed{9} = 27$	$\boxed{9} \times 10 = 90$	$4 \times \boxed{5} = 20$
$5 \times \boxed{5} = 25$	$\boxed{2} \times 4 = 8$	$5 \times \boxed{0} = 0$
$4 \times \boxed{7} = 28$	$\boxed{6} \times 9 = 54$	$8 \times \boxed{8} = 64$
$10 \times \boxed{6} = 60$	$\boxed{1} \times 8 = 8$	$10 \times \boxed{7} = 70$
$9 \times \boxed{9} = 81$	$\boxed{10} \times 2 = 20$	$7 \times \boxed{5} = 35$

3

Fill in the missing numbers.

a) $9 \div \boxed{3} = 3$	b) $\boxed{25} \div 5 = 5$	c) $4 \div \boxed{1} = 4$
$28 \div \boxed{7} = 4$	$\boxed{48} \div 6 = 8$	$36 \div \boxed{6} = 6$
$54 \div \boxed{6} = 9$	$\boxed{81} \div 9 = 9$	$100 \div \boxed{10} = 10$
$70 \div \boxed{10} = 7$	$\boxed{80} \div 10 = 8$	$18 \div \boxed{2} = 9$
$72 \div \boxed{9} = 8$	$\boxed{0} \div 6 = 0$	$24 \div \boxed{8} = 3$
$18 \div \boxed{6} = 3$	$\boxed{14} \div 7 = 2$	$45 \div \boxed{9} = 5$

4


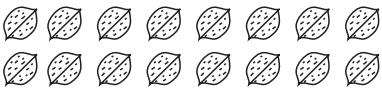

Write the value, in acorns, of each squirrel's store of food, if:

 =  So 1  = 3 

 =  So 4  = 12  and 1  = 3 .

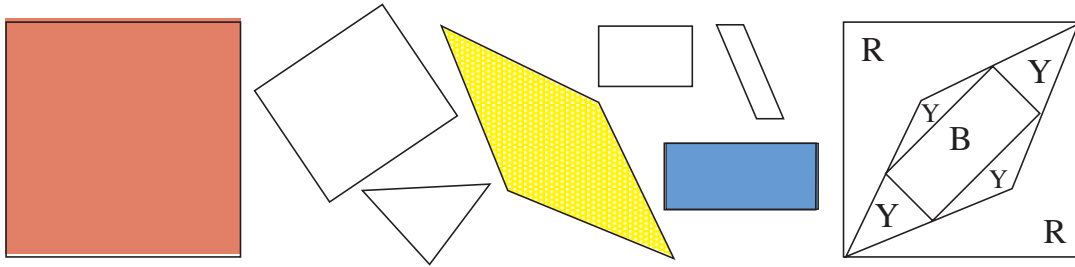
a)  :   = 48 

1  = 3  = 3 × (3 ) = 9 

b)  :  = 48 

1

We have put some of these shapes one on top of the other to give the shape on the right. Colour the shapes we have used in the correct colour.



2

The length of a room is 4 m 30 cm and the width is 2 m 70 cm. What is the difference between them?

Length: **4 m 30 cm** ... = **430** cm Width: **2 m 70 cm** ... = **270** cm

4 3 0 - **2 7 0** = **1 6 0** cm = **1** m **6 0** cm

3

On a farm, each hen lays 1 egg per day. Complete the table.



Number of hens	1	2	2	3	3	4	4	5	10	10
Number of days	1	1	2	2	3	3	5	10	5	10
Number of eggs	1	2	4	6	9	12	20	50	50	100

4

Do the calculations in the correct order.

a) $12 + 24 \div 6 - 4 =$ **12** b) $(12 + 24) \div 6 - 4 =$ **2**
 $12 + 24 \div (6 - 4) =$ **24** $(12 + 24) \div (6 - 4) =$ **18**
 $12 + (24 \div 6 - 4) =$ **12** $12 + (24 \div 6 - 4) =$ **12**

5

In a card game, the cards have pictures of apples, pears, cherries and bananas. The rules are:

3 = 1 , 6 = 1 , 2 = 1

How many bananas are equal to an apple?

1 apple = 3 pears
= 3 × (6 cherries) as 1 pear = 6 cherries
= 18 cherries
= 18 × (2 bananas) as 1 cherry = 2 bananas
= 36 bananas

Answer: 1 = **36**