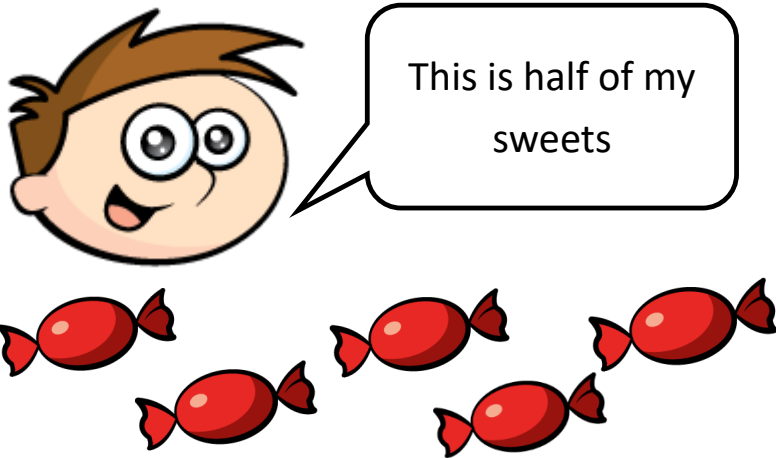


1 Fill in the missing numbers.

10 less than 46 is 36

5 more than 30 is 35

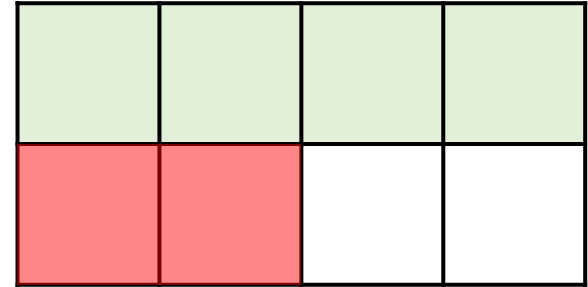
2



How many sweets does Teddy have?

**Teddy has 10 sweets.**

3 Lucy shades in part of a rectangle.



She shades some more squares.

$\frac{3}{4}$  of the rectangle is now shaded.

How many more squares did Lucy shade?

**Lucy shaded two more squares.**

1 Ron has these digit cards.



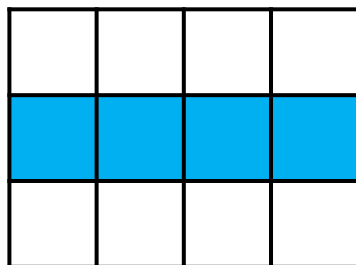
He uses two of the cards to make a 2-digit number.

How many even 2-digit numbers can he make? **He can make 4 even 2-digit numbers: 14, 16, 46, 64**

2 One third of the shape is shaded.

True or false?

**True**



3 Tick all the calculations that have an answer greater than 40

$43 + 39$  ✓

$35 - 6$

$23 + 28$  ✓

$10 \times 7$  ✓

$24 \div 2$

Did you tick any without working them out?

**e.g. I knew  $43 + 24$  because 43 is greater than 40**

- 1 Which of these numbers is closest to 10?

3

13 ✓

- Which of these numbers is closest to 50?

75

28 ✓

- 2 What are the missing numbers?

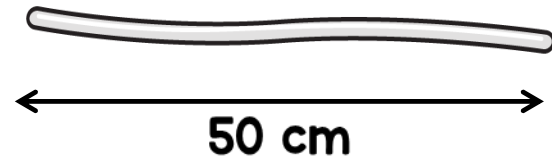
$$64 = 10 + \boxed{54}$$

$$39 = 100 - \boxed{61}$$

- 3 Annie has an 80 cm piece of wire.



She cuts the wire into two pieces. The long piece is 50 cm long.



She cuts the smaller piece into 2 more pieces of equal size.

How long is one of these pieces?

$$80 - 50 = 30$$
$$30 \div 2 = 15$$

15 cm

1 What are the missing digits?

$$\begin{array}{|c|c|} \hline 3 & \color{red}{1} \\ \hline \end{array} + \begin{array}{|c|c|} \hline \color{red}{4} & 5 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 7 & 6 \\ \hline \end{array}$$

2 Annie and Ron each think of a number.

I'm thinking of the number 6

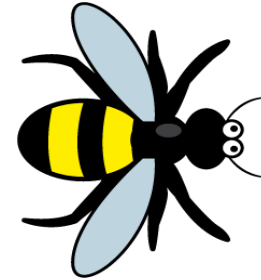


The sum of their numbers is 25

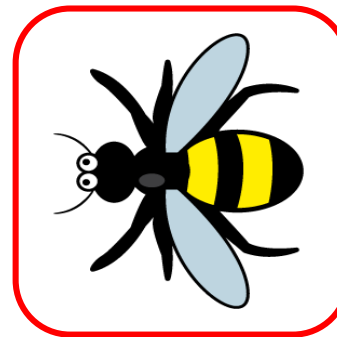
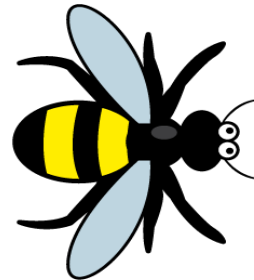
What is Ron's number?  $25 - 6 = 19$

Ron's number is 19

3 The bee makes a half turn.



Which way is the bee now facing?



- 1 There are 5 marbles in a bag.



$$\begin{aligned}5 \times 10 &= 50 \\1 \times 10 &= 10 \\50 + 10 &= 60\end{aligned}$$

Ron has 10 bags of marbles.

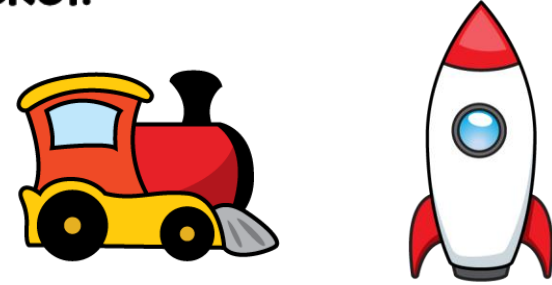
He puts 1 more marble in each bag.

How many marbles are there in total now? **60 marbles**

- 2 Work out the missing digit.

$$\boxed{5} + \boxed{7} + \boxed{4} = 16$$

- 3 A toy train costs £4 more than a rocket.



The train costs £15

How much do the train and the rocket cost in total?

$$\begin{aligned}\pounds 15 - 4 &= \pounds 11 \\ \pounds 15 + \pounds 11 &= \pounds 26\end{aligned}$$

**Total cost is £26**

1 Here is how much it costs to go to the zoo.



$$\begin{aligned} \text{£}5 \times 3 &= \text{£}15 \\ \text{£}10 + \text{£}15 &= \text{£}25 \end{aligned}$$

Mr Jones and his 3 children go to the zoo.

How much does it cost them altogether? **£25 altogether**

2 If

$$\triangle + \triangle = 12$$

$$\heartsuit + \triangle = 19$$

$$\begin{aligned} 12 \div 2 &= 6 \\ 19 - 6 &= 13 \end{aligned}$$

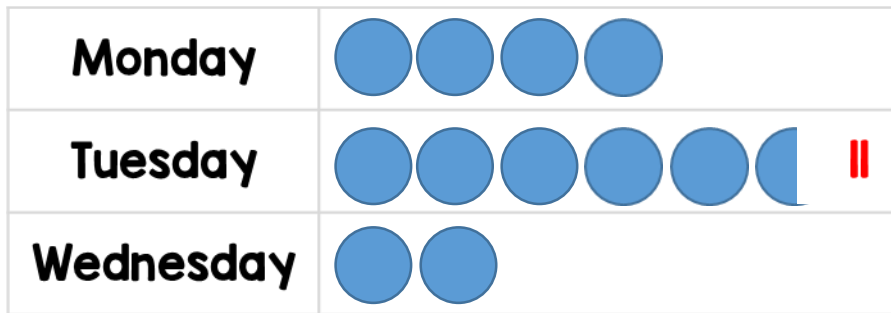
What is the value of  $\heartsuit$ ? **13**

3 What are the missing numbers?

$$\boxed{4} \times 10 = 40$$

$$\boxed{70} \div 10 = 7$$

- 1 The pictogram shows the number of children who walk to school each day.



 = 2 children

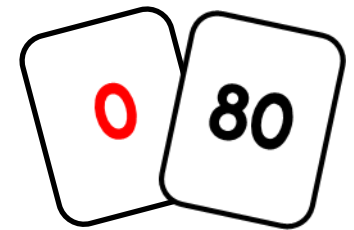
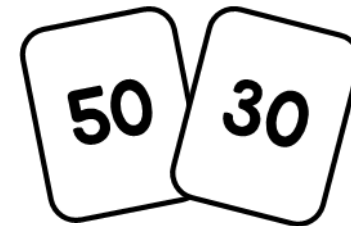
There are 20 children in the class.

How many children did not walk to school on Tuesday?

$$20 - 11 = 9$$

9 children didn't walk to school on Tuesday.

- 2 These pairs of numbers all have the same total.



Work out the missing numbers.

## 1 Mary makes toys

- On Monday she makes 7 toys.
- On Tuesday she makes 8 toys.

By Wednesday she has to make 20 toys in total.

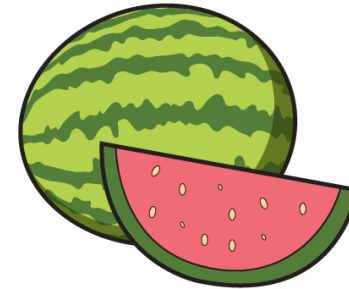
How many toys does Mary need to make on Wednesday?

$$\begin{aligned} 7 + 8 &= 15 \\ 20 - 15 &= 5 \end{aligned}$$



Mary needs to make 5 toys.

## 2 Tom has £20



Melon  
£2 each

He buys 7 melons.  $7 \times 2 = 14$   
 $20 - 14 = 6$

How much money does he have left?  
Tom has £6 left.

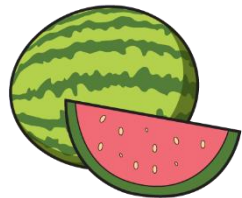
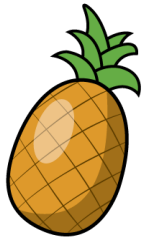
## 3 Circle 3 numbers that sum to 12

6    5    4    3    2    1

6, 5 and 1  
6, 4 and 2  
5, 4 and 3



- 1 The cost of a pineapple is twice the cost of a melon.



£4 each

$$\begin{aligned} \text{£}4 \times 2 &= \text{£}8 \\ \text{£}4 + \text{£}8 &= \text{£}12 \end{aligned}$$

How much do the pineapple and melon cost altogether?

**They cost £12 altogether.**

- 2 Tommy thinks of a two-digit number.

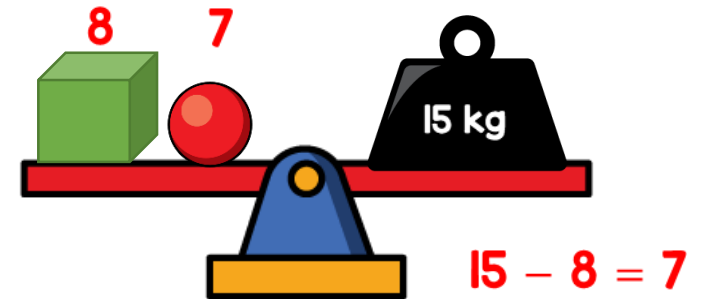
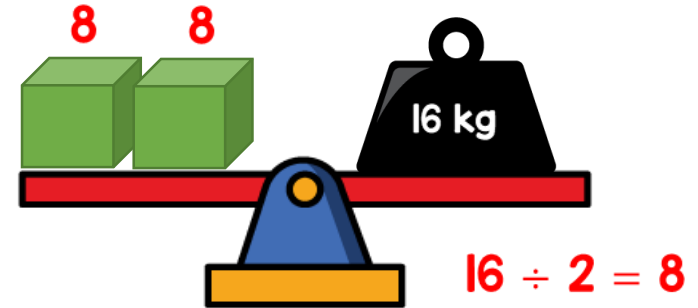
My number ends in a 5



**Yes, all numbers ending in 5 are odd.**

Does Tommy's number have to be odd? Explain your answer.

- 3 Gina balances some scales.



What is the mass of the sphere?

**The mass of the sphere is 7 kg.**

1 Here are some digit cards.



Mary makes a 2-digit number using two of the cards.

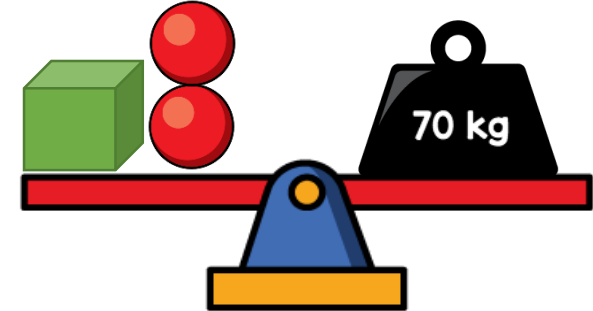
How many different numbers can she make? **6 different numbers**  
**14, 15, 41, 45, 51, 54**

2 Complete the number sentences.

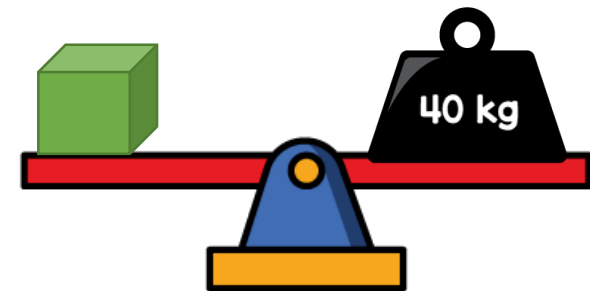
$$60 + \boxed{19} = 79$$

$$15 + 12 = 12 + \boxed{15}$$

3 Tom balances some scales.



$$70 - 40 = 30$$
$$30 \div 2 = 15$$



What is the mass of the sphere?

**The mass of the sphere is 15 kg.**

- 1 Use  $<$ ,  $>$  or  $=$  to make these number sentences correct.

$$5 \times 7 \quad (<) \quad 40$$

$$6 \times 2 \quad (<) \quad 7 \times 2$$

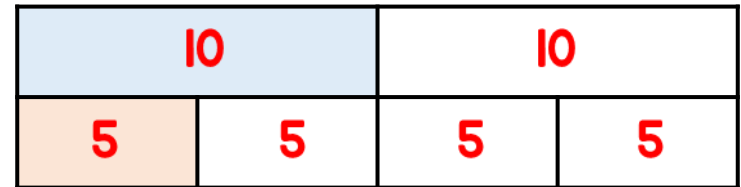
$$10 \div 2 \quad (<) \quad 12 \div 2$$

- 2 There are 50 children in a school.  
15 of the children are girls.  
How many more boys than girls are in the school?
- $$50 - 15 = 35$$
- $$35 - 15 = 20$$
- There are 20 more boys than girls.**

- 3 Mr Patel writes a number on the board.

- Lee finds  $\frac{1}{2}$  of the number.
- Kim finds  $\frac{1}{4}$  of the number.
- Lee's answer is 5 more than Kim's.

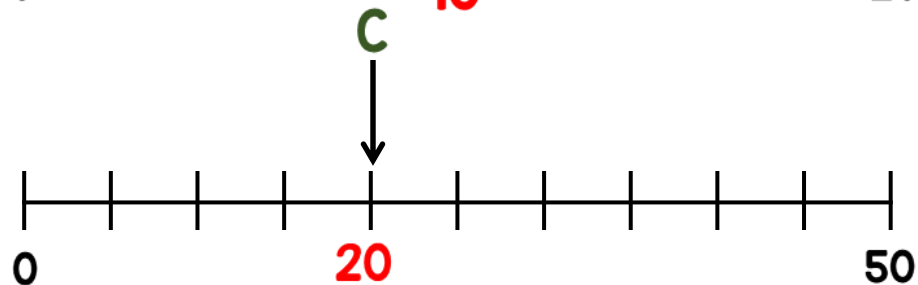
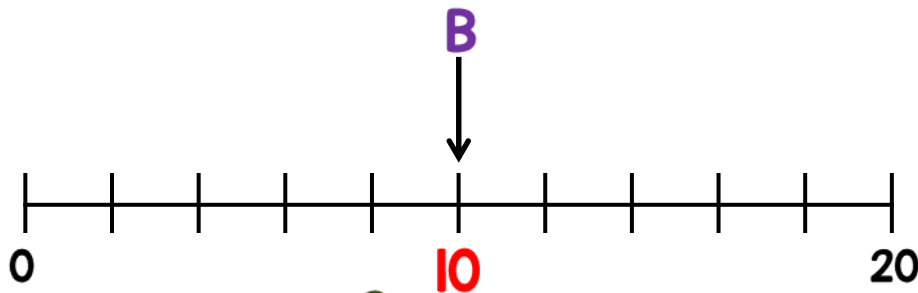
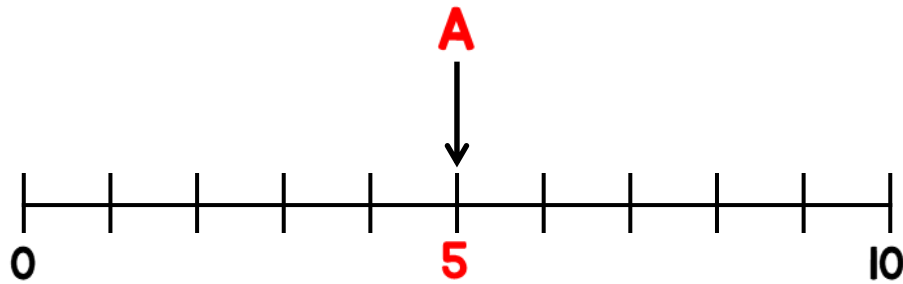
What is the number Mr Patel started with? This bar model may help you.



**Mr Patel started with 20**

1 Given that  $A + B = C$

Draw an arrow pointing to C



2 Amir has a box of 50 counters.

12 of the counters are red.

17 of the counters are blue.

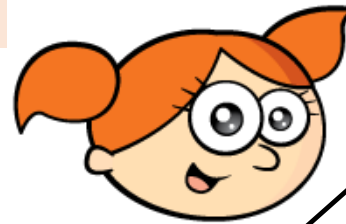
The rest of the counters are yellow.

Which coloured counter are there

more of?  $12 + 17 = 29$   
 $50 - 29 = 21$

There are more yellow counters.

3



When I share my stickers between me and my 4 friends, we all get 7 stickers.

How many stickers did Lisa share

out?  $7 \times 5 = 35$

Lisa shared 35 stickers.

- 1 Sam has £50  
He buys this cap and jumper with his money.



$$19 + 15 = 34$$
$$50 - 34 = 16$$

How much money does he have left?

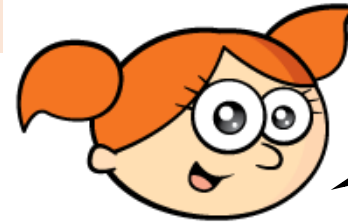
**Sam has £16 left.**

- 2 One half of a number is 6  
What is double the number?

$$6 \times 2 = 12$$
$$12 \times 2 = 24$$

**24 is double the number.**

3



I have 42 stickers



I have 60 stickers

Mo gives Alex some stickers.  
They now have the same number of stickers.

How many stickers does Mo give Alex?

$$60 - 42 = 18$$
$$18 \div 2 = 9$$

**Mo gives Alex 9 stickers.**

1 Which of these are equal to 15?

$10 + 5$



$5 + 5 + 5$

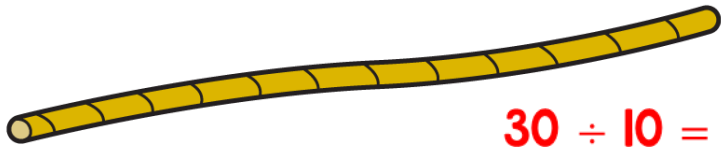


$20 - 5$



$1 + 5$

2 A rope measures 30 metres.



$$30 \div 10 = 3$$
$$3 \times 5 = 15$$

The rope is cut into 10 equal sized pieces.

What is the total length of 5 of these pieces?

**15 metres**

3 Danny has two boxes of sweets.



He puts the sweets into smaller bags.

There are 5 in each bag.



$40 + 40 = 80$

How many bags can Danny fill?

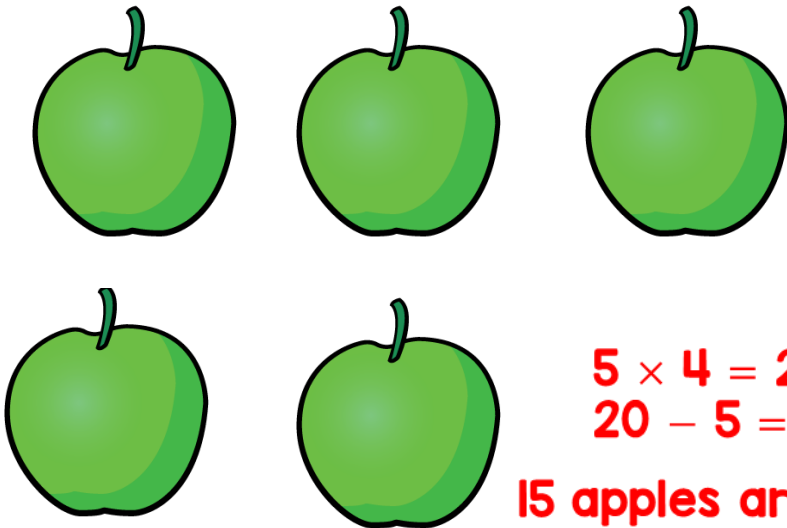
sweets?

**Danny can fill 16 bags.**

1 In a box

- $\frac{1}{4}$  of the apples are green.
- The rest are red.
- There are 5 green apples.

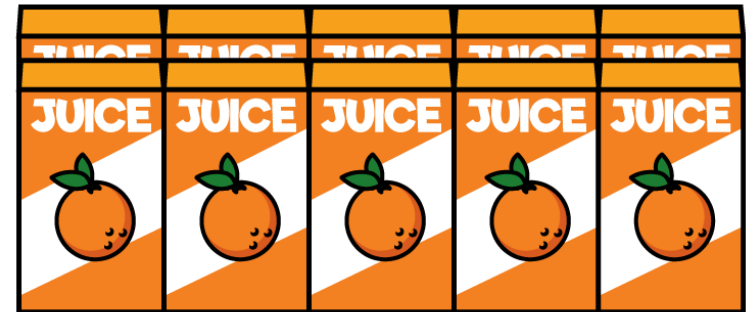
How many apples are red?



$$5 \times 4 = 20$$
$$20 - 5 = 15$$

15 apples are red.

2 Amir has 10 cartons of juice.



Each carton holds 2 litres of juice.

How much juice is in 7 cartons?

$$7 \times 2 = 14$$

7 cartons hold 14 litres of juice.

1 Here are 3 number patterns.

0	5	10	15	20	25	30
---	---	----	----	----	----	----

27	37	47	57	67	77	87
----	----	----	----	----	----	----

32	30	28	26	24	22	20
----	----	----	----	----	----	----

What is the sum of the three missing numbers?

$$25 + 47 + 24 = 96$$

2 Work out the value of each symbol.

$$\triangle q + \triangle q = 18$$

$$18 \div 2 = 9$$

$$\triangle q + \diamond 21 = 30$$

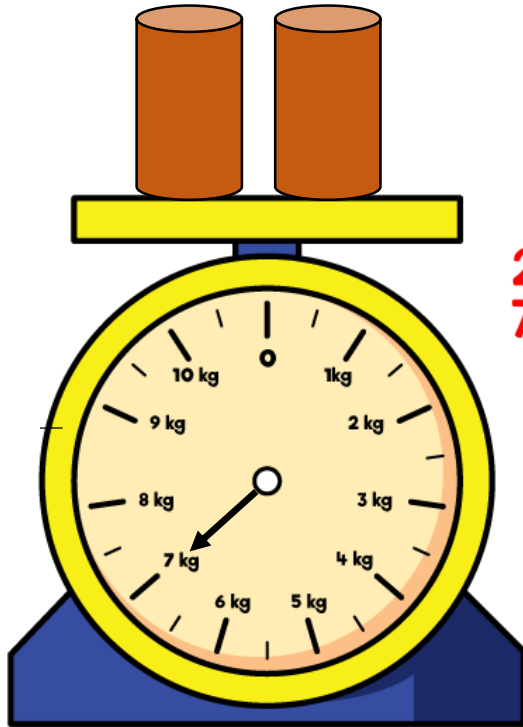
$$30 - 9 = 21$$

$$\star 31 - \diamond 21 = 10$$

$$21 + 10 = 31$$



- 1 Mary measures the mass of 2 cylinders.



$$\begin{aligned} 2 \times 5 &= 10 \\ 7 \times 5 &= 35 \end{aligned}$$

What is the mass of 10 of these cylinders? **35 kg**

- 2 Jack and Dora each have some money.



I spent half of my money.

I spent £12



They have the same amount left.

Dora spent £20

How much money did Jack have at

the start?  **$20 + 12 = 32$**

**Jack had £32 at the start.**

- 1 Tim has two packs of pop.  
Each pack holds 24 cans.



- Sally has five smaller packs.  
Each of her packs holds 6 cans.



$$\begin{aligned} 24 \times 2 &= 48 \\ 5 \times 6 &= 30 \\ 48 - 30 &= 18 \end{aligned}$$

- How many more cans of pop does  
Tim have? **Tim has 18 more  
cans of pop.**

- 2 Here is some money.



- The money is shared between 5  
girls and 2 boys.

Each girl receives £3

How much money does each boy  
receive?

$$\begin{aligned} 5 \times 3 &= 15 \\ 29 - 15 &= 14 \\ 14 \div 2 &= 7 \end{aligned}$$

**Each boy receives £7**

1 Mo has six 5p coins.



He also has five 10p coins.



He buys this lolly.

How much money does  
he have left?

$$6 \times 5 = 30$$

$$5 \times 10 = 50$$

$$50 + 30 = 80$$

$$80 - 49 = 31$$

Mo has 31p left.



2 Mrs Green bakes muffins.

She sells them in her shop.



- On Monday she bakes 30 and sells 18
- On Tuesday she ~~bakes twice as many muffins~~ but has the same amount left.

How many muffins did she sell on Tuesday?

$$30 \times 2 = 60$$

$$60 - 12 = 48$$

She sells 48 muffins on  
Tuesday.

1 Complete these number sentences.

$$5 + 5 + 5 + 5 = \boxed{4} \times 5$$

$$2 + 2 + 2 + 2 + 2 = \boxed{2} \times 5$$

$$10 + 10 + 10 = \boxed{6} \times 5$$

$$5 - 5 = \boxed{0} \times 5$$

2 Lou has 5 bananas.



Dan has 8 times as many.

$$5 \times 8 = 40$$
$$40 + 5 = 45$$

How many bananas do they have in total?

**They have 45  
bananas in total.**

A bag contains 100 counters.

3 Susie takes out 26 counters.

Mark takes out 39 counters.

How many counters are left in the bag?

$$100 - 26 = 74$$
$$74 - 39 = 35$$

**There are 35 counters  
left in the bag.**