1 Write in the missing numbers.

$$55 + \boxed{} = 120$$
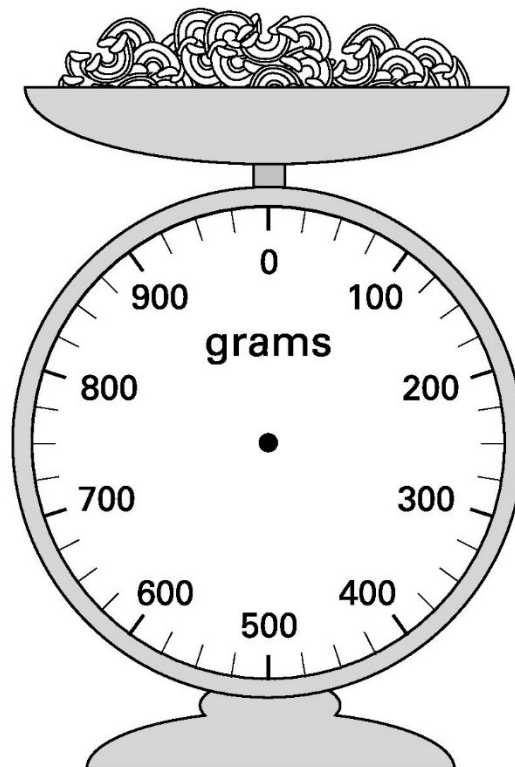
$$600 \times 4 = \boxed{}$$

2 Jamie is cooking pasta.

He weighs 350 grams of pasta.

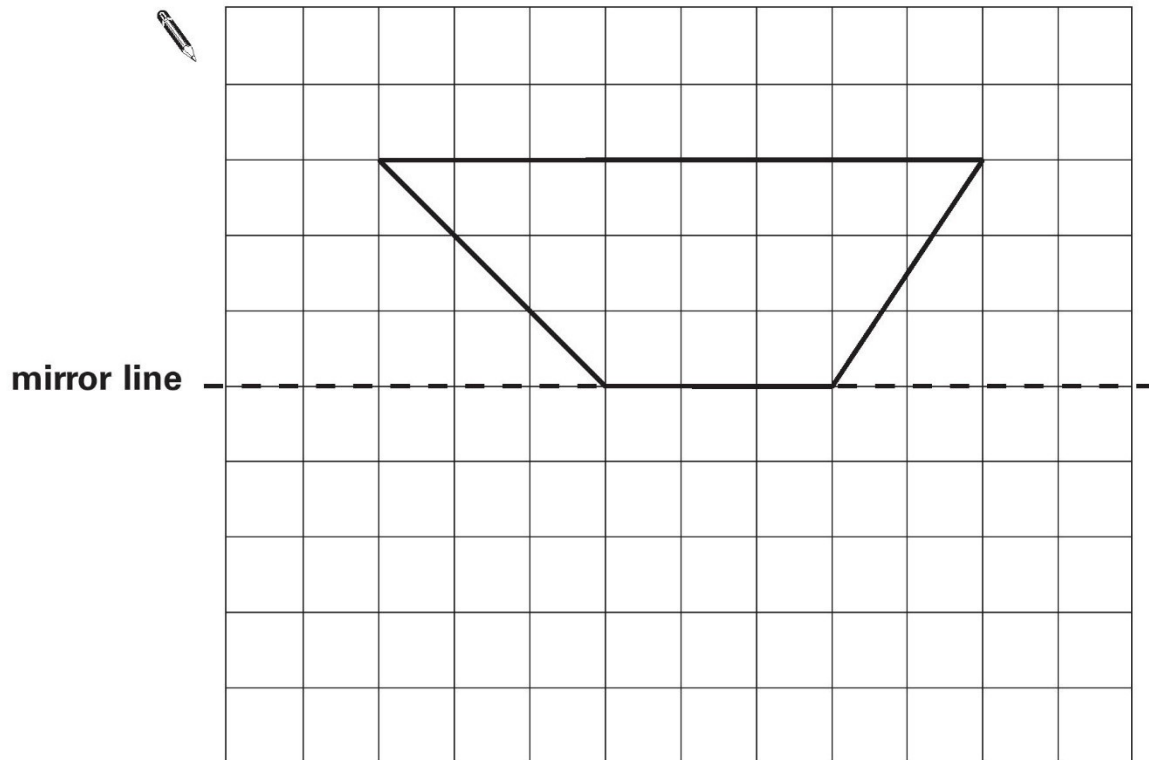Draw an arrow on the scale to show 350 grams.

3

Complete the diagram below to make a shape that is symmetrical about the mirror line.

Use a ruler.

mirror line

4

Which of these numbers give **80** when **rounded** to the **nearest 10**?

Circle all the correct numbers.

84   87   72   76   90

5 Calculate **309 − 198**

6 This table shows how many journeys a taxi driver made on five days and how much money he collected.

	number of journeys	money collected
Monday	23	£85
Tuesday	36	£112
Wednesday	18	£69
Thursday	31	£124
Friday	35	£109

How much money did he collect on the day that he made the most journeys?

£

How much more money did he collect on Monday than on Wednesday?

£

7
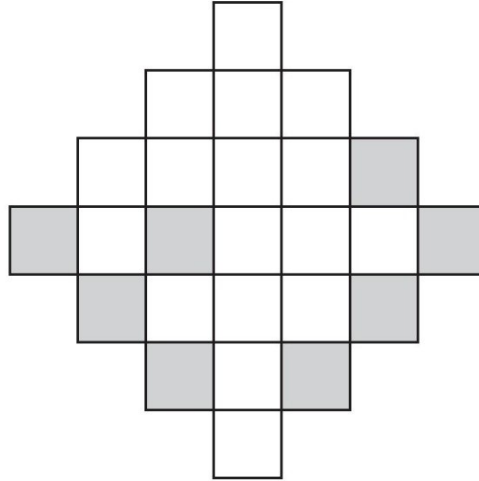
Here is a grid with eight squares shaded in.

Shade in **two more** squares to make a symmetrical pattern.

8

Each of these bags contains **£1.60**

Each bag contains only one type of coin.

Complete this table to show how many coins are in each bag.

One has been done for you.

Type of coin	Number of coins
1p	160
10p	
20p	

9

Tom and Nadia have 16 cards each.

Tom gives Nadia **12** of his cards.

How many cards do Tom and Nadia each have now?

Tom [ ]   Nadia [ ]

Lucy also has 16 cards.

She gives a **quarter** of her cards to Kiran.

How many cards does Lucy give to Kiran?

[ ]

10 Here is a repeating pattern of shapes.

Each shape is numbered.

The pattern continues in the same way.

Write the numbers of the next two **stars** in the pattern.

[   ] and [   ]

Complete this sentence.

Shape number 35 will be a circle because ...

....

....

....
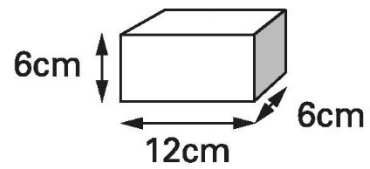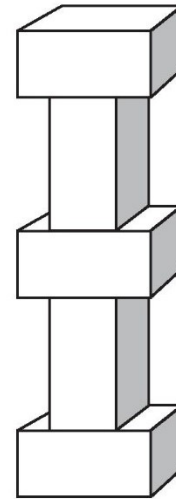
11

Martin has some bricks.

They are 12cm long, 6cm high and 6cm deep.

6cm

12cm

6cm
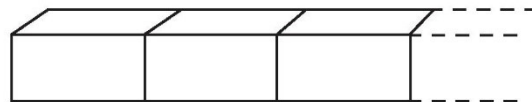
He builds this tower with **five** bricks.

How tall is the tower?

cm

11a

1 mark

Each brick is 12cm long.

Martin makes a line of bricks **132cm long**.

How many bricks does he use?

11b

1 mark

12

A bottle holds **1 litre** of lemonade.

Rachel fills **5** glasses with lemonade.

She puts **150 millilitres** in each glass.

How much lemonade is left in the bottle?

Show your **working**. You may get a mark.

ml

12i

12ii

2 marks

13

Calculate **2307 × 8**

13

1 mark

14 Some children ran in two races on sports day.

Here are their times.

	100m race	800m race
Elise	15.9 seconds	3 minutes 02 seconds
Jake	19.7 seconds	2 minutes 58 seconds
Teri	16.8 seconds	3 minutes 01 seconds
Neil	17.1 seconds	2 minutes 59 seconds
Barry	18.4 seconds	2 minutes 57 seconds

Who finished the 100m race in **second** place?

14a

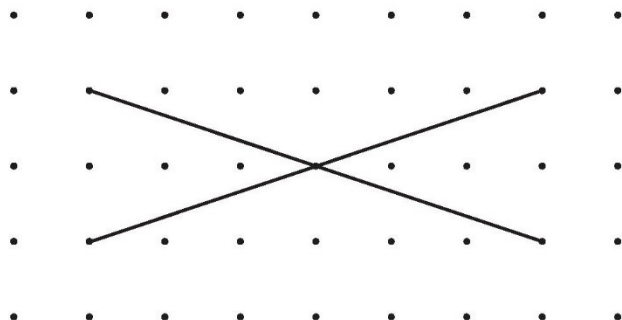1 mark

In the 800m race, how many seconds did
Barry finish ahead of Elise?

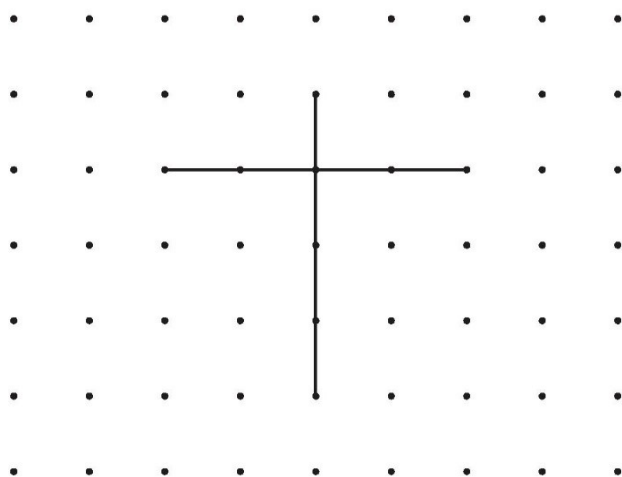seconds
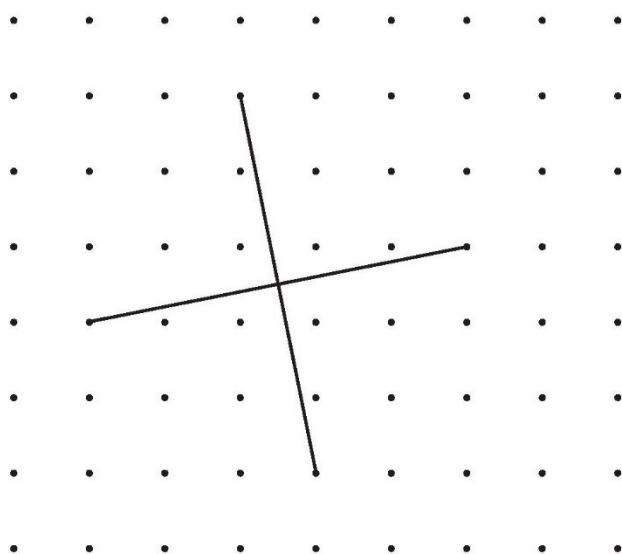
14b

1 mark

15 These diagrams show the **diagonals** of three **quadrilaterals**.

Write the names of the quadrilaterals in the boxes.

16

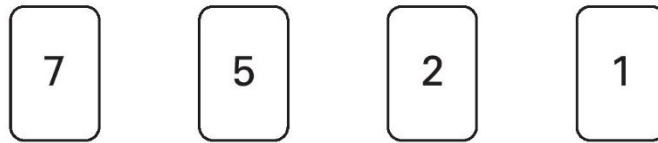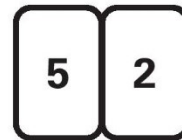Here are four digit cards.

| 7 | 5 | 2 | 1 |

Choose two cards each time to make the following two-digit numbers.

The first one is done for you.

an even number **5 2**
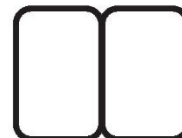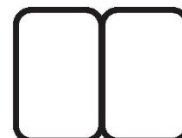
a multiple of 9

a square number

a factor of 96

16i

16ii

2 marks

17 The first two numbers in this sequence are 2.1 and 2.2

The sequence then follows the rule

'to get the next number, add the two previous numbers'

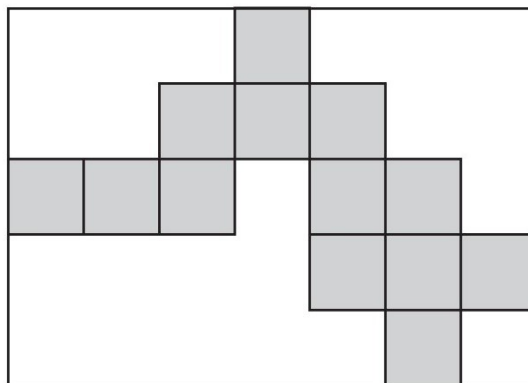Write in the next two numbers in the sequence.

2.1   2.2   4.3   6.5   ☐   ☐

2 marks

18 Here is a rectangle with 13 identical shaded squares inside it.

What fraction of the rectangle is shaded?

☐

18

1 mark

19 A packet contains **1.5 kilograms** of guinea pig food.

Remi feeds her guinea pig **30 grams** of food each day.

How many days does the packet of food last?

Show your **working**. You may get a mark.

	days

19i

19ii

2 marks

20 An isosceles triangle has a perimeter of 12cm.

One of its sides is 5cm.

What could the length of each of the other two sides be?

Two different answers are possible.

Give **both** answers.

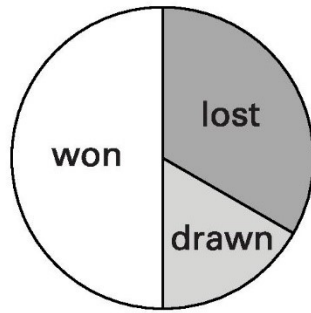|	cm	and		cm

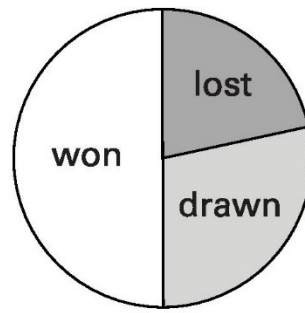|	cm	and		cm

20i

20ii

2 marks

21 ▶

The pie charts show the results of a school's netball and football matches.

Netball

Football

The netball team played **30** games.

The football team played **24** games.

Estimate the percentage of games that the **netball team lost**.

✎ [ ] %

David says,

'The two teams won the same number of games'.

Is he correct?
Circle Yes or No.

✎ Yes / No

Explain how you know.

✎
....
....
....

22 Write in the missing number.

$$50 \div \boxed{} = 2.5$$

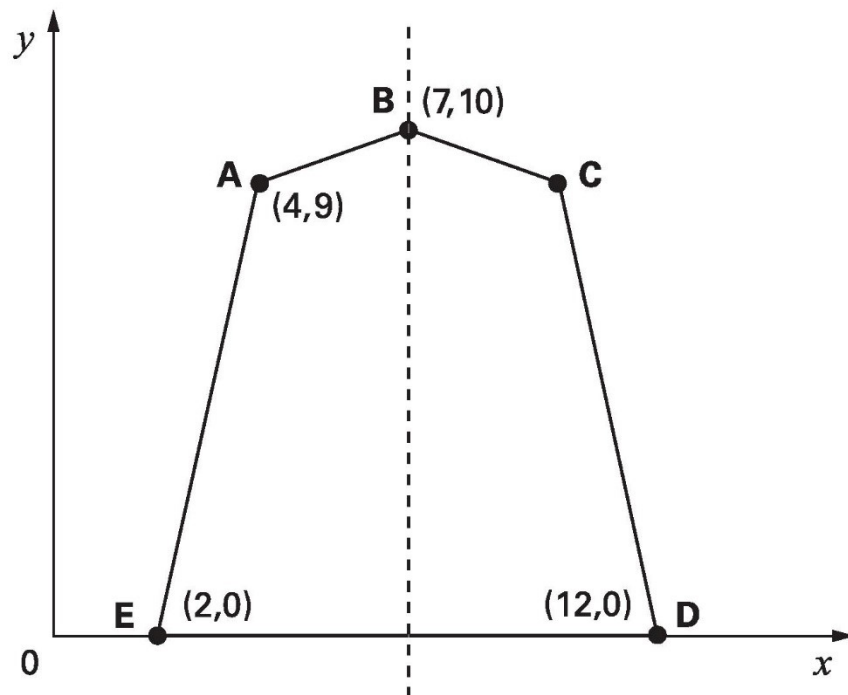**23** Here is a pentagon drawn on a coordinate grid.

The pentagon is symmetrical.

What are the coordinates of point **C**?

$(,)$

24 Three-quarters of a number is **48**

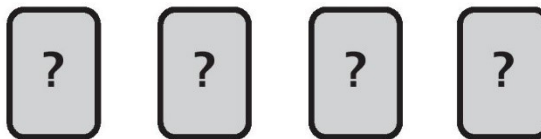What is the number?

🖊️ [   ]

25 Debbie has a pack of cards numbered from 1 to 20

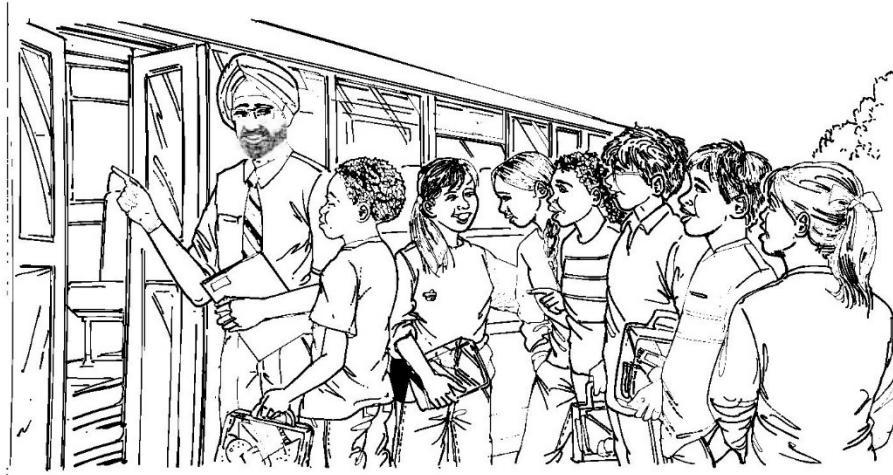She picks four different number cards.

[?] [?] [?] [?]

Exactly three of the four numbers are multiples of 5

Exactly three of the four numbers are even numbers.

All four of the numbers add up to less than 40

Write what the numbers could be.

🖊️ [ ] [ ] [ ] [ ]

26

30 children are going on a trip.

It costs **£5** including lunch.

Some children take their own packed lunch.

They pay only **£3**

The 30 children pay a total of **£110**

How many children are taking their own packed lunch?

Show your **working**. You may get a mark.

children

26i

26ii

2 marks