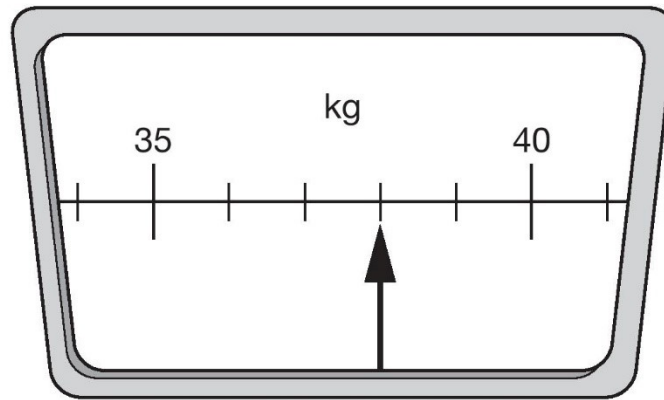**1** This scale shows how much Chen weighs.

How much does Chen weigh?

kg

1

1 mark

2 Alfie collected information about the pets owned by children in his class.
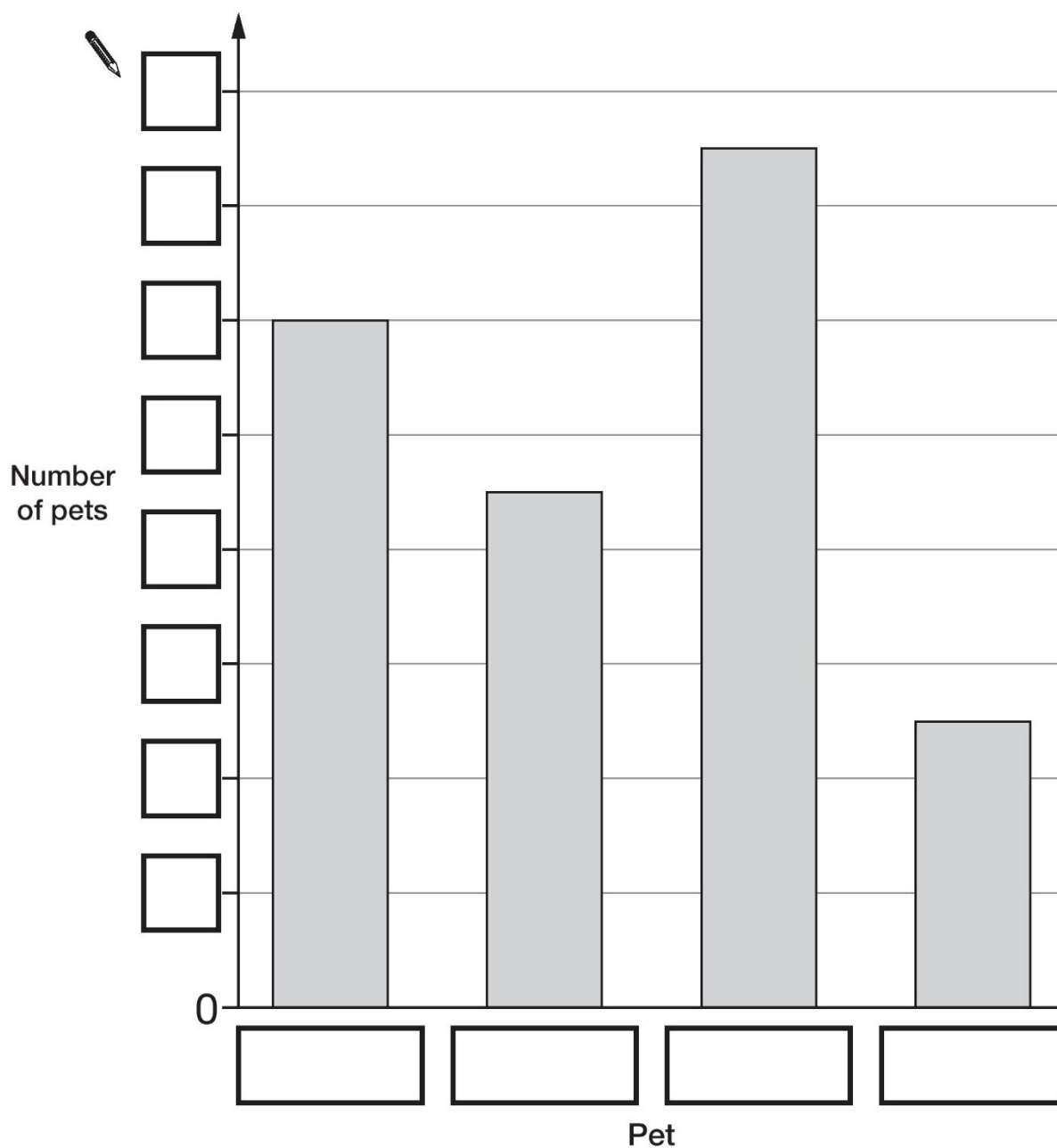
Here are his results.

Pet	Number of pets
dog	9
cat	12
rabbit	5
fish	15

This bar chart shows the information from the table.

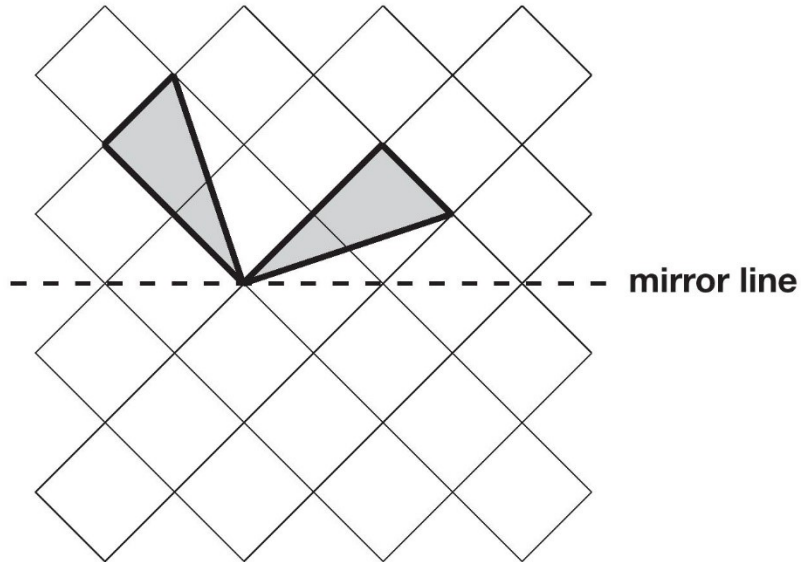Fill in **all** the missing labels.

Number of pets

Pet

3 Complete this shape so that it is symmetrical about the mirror line.

Use a ruler.

mirror line

3

1 mark

4 Circle **three** numbers that add to make 750

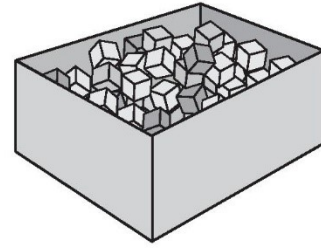450   350   250   150   50

4

1 mark

5

Seb has a box of **120** cubes.

He uses some of the cubes to build a tower.

77 cubes are left over.

How many cubes has he used?

5a

_____
1 mark

Seb has 77 cubes left over.

He builds two more towers.

One tower uses 18 cubes and the other uses 35 cubes.

How many of his **77** cubes has he got left now?

Show your working

5bi
_____

5bii
_____
2 marks

Total out of 5 _____

6 In these calculations, each missing sign is a **+** or a **−**

Write the missing signs in the circles.

$8 \bigcirc 7 \bigcirc 6 \bigcirc 5 = 2$

6a

1 mark

$8 \bigcirc 7 \bigcirc 6 \bigcirc 5 = 4$

6b

1 mark

7 Megan has 7 coins that make one pound.

The coins are of **only two** different kinds.

What are the 7 coins?

7

1 mark

8

The numbers in this sequence increase by 10 each time.

$$3 \quad 13 \quad 23 \quad \ldots$$

The sequence continues in the same way.

Write **two** numbers from the sequence that add to make a total of **96**

[ ] **and** [ ]

8a

1 mark

Explain why it is **not** possible to find **three** numbers from the sequence that add to make a total of **96**

8b

1 mark

Total out of 5 _____

Join each fraction to the correct decimal card.

The first one has been done for you.

$$\frac{3}{10}$$

0.03

$$\frac{3}{5}$$

0.06

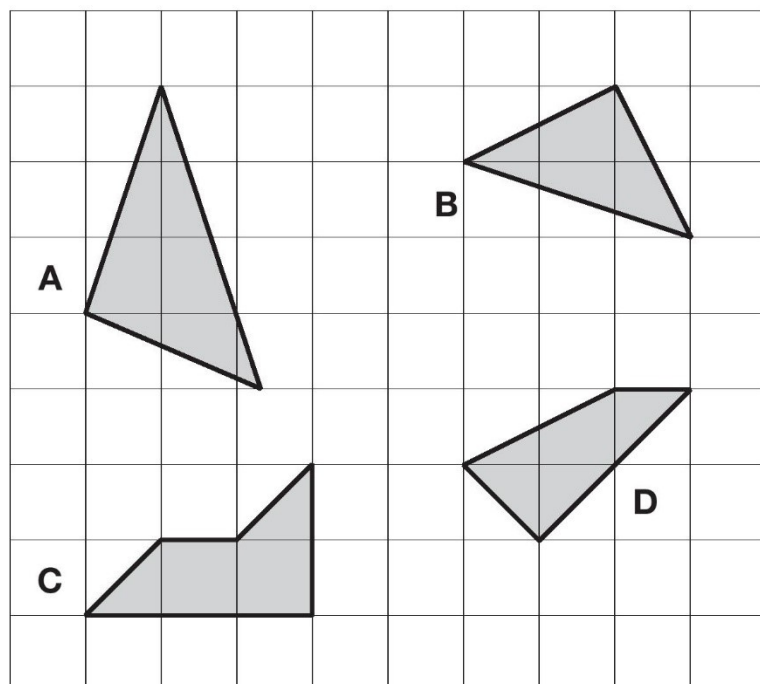$$\frac{3}{100}$$

0.3

$$\frac{3}{50}$$

0.6

Here are four shapes on a square grid.

Write the letters of **all** the shapes that have **exactly two** sides which are equal in length.

10i

10ii

2 marks

11 Calculate **32.18 − 7.62**

11

1 mark

12 Circle the approximate measurement.

The length of a banana is about…

2 cm   *20 cm*   *2 mm*   *2 m*   *20 m*

The mass of an apple is about…

2 g   *20 kg*   *200 kg*   *200 g*   *2 kg*

A glass of fruit juice is about…

12i

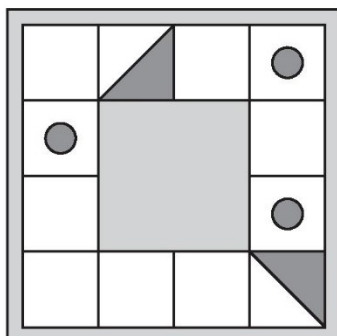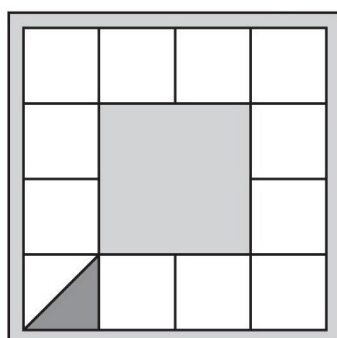*2 ml*   *2 l*   *20 ml*   *200 ml*   *20 l*

12ii

2 marks

Here is a design of dots and triangles on a square tile.

The tile is turned clockwise to the position below.

Shade the missing shapes in their new positions.
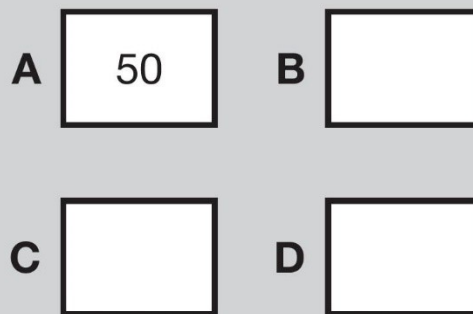

13i

_____

13ii

_____

2 marks

14

The number in **A** is **twice** the number in **D**.

The number in **B** is **5 less** than the number in **C**.

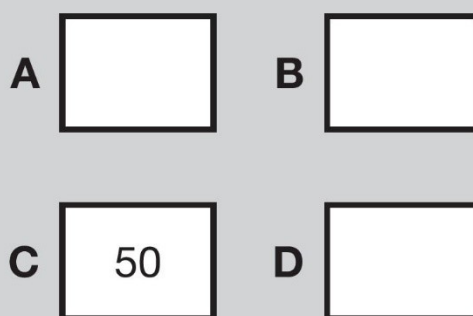The number in **D** is **10 more** than the number in **B**.

Write the missing numbers in this diagram.

| A | 50 | B | |
| C | | D | |

Now use the same rule for this diagram.

| A | | B | |
| C | 50 | D | |

15

200 children went on holiday.

10% of the children went to Wales.

25% of the children went to Scotland.

How many **more** children went to Scotland than went to Wales?

Show your working

children

15i

15ii

2 marks

16 Amy did a survey of what time people get up on a Sunday morning.
This table shows her results for 150 people.

Time	number of people
before 7:00 am	13
7:00 am to 7:59 am	28
8:00 am to 8:59 am	59
9:00 am to 9:59 am	36
10 am and after	14

Look at the table.

How many people get up at **8am or later**?

16a

1 mark

Amy says,

'Two-thirds of the 150 people in the survey get up before 9am.'

Amy is correct.

Explain how you know.

16b

1 mark

17 Write numbers in the boxes to make this calculation correct.

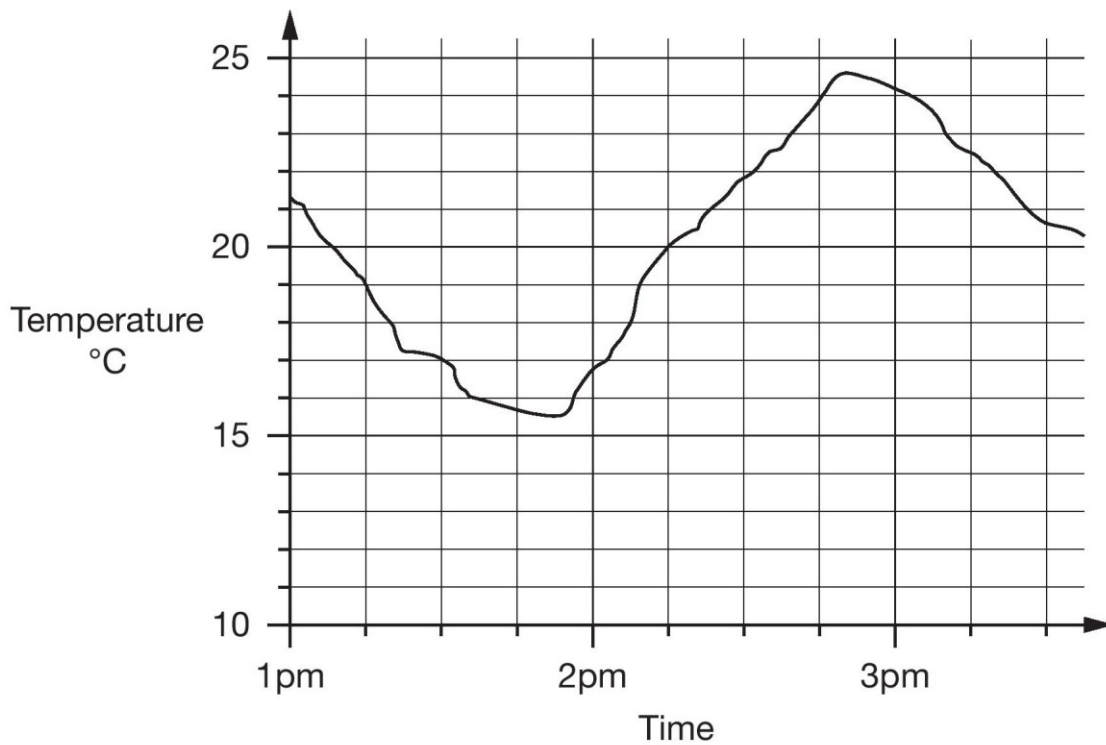$$50 - \boxed{} = \boxed{} + 10$$

1 mark

Total out of 3 _____

18 This graph shows how the temperature changed in Liam's room one afternoon.

Estimate the temperature at 3:15 pm.

°C

1 mark

Estimate the time when the temperature was highest.

pm

1 mark

How much did the temperature change from 2 pm to 2:30 pm?
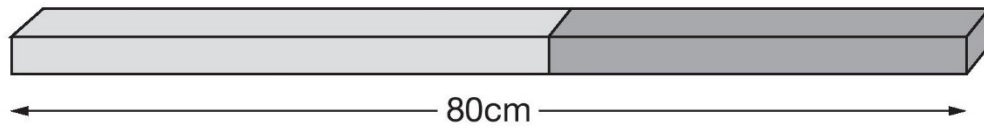Give your answer to the **nearest degree**.

degrees

1 mark

19 Alfie has two sticks.

He puts them end to end.

— 80cm —

One stick is **10cm longer** than the other stick.

How long are the two sticks?

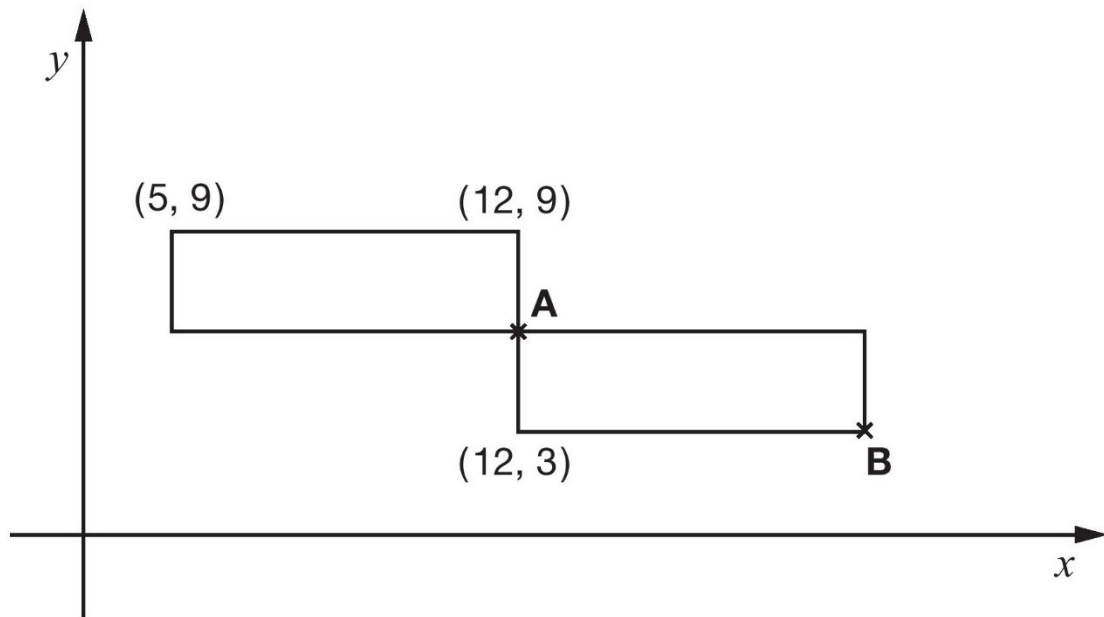Show your working

[   ] cm **and** [   ] cm

19i
_____
19ii
_____
2 marks

Total out of 5 _____

This diagram shows two **identical** rectangles on coordinate axes.

Write the **coordinates** of point **A** and point **B**.

A is (_____ , _____)

1 mark

B is (_____ , _____)

1 mark

21 Amy thought of a number.

She added 0.5 to her number and then doubled the result.

Then she subtracted 0.5 and doubled the new result.

Her final answer was 61

What number did Amy start with?
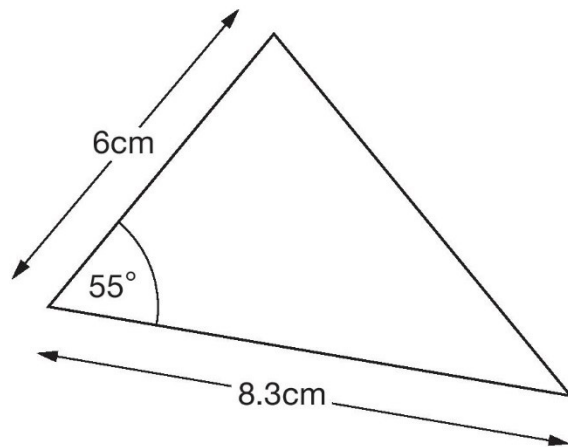
Show your working

21i _____

21ii _____

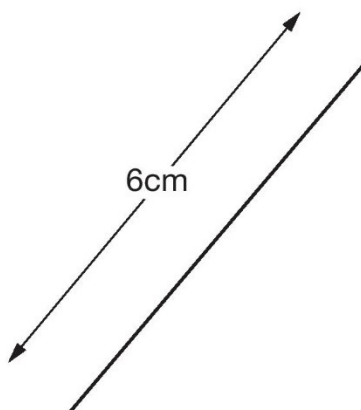2 marks

Here is a sketch of a triangle.

It is not drawn to scale.

6cm

55°

8.3cm

Draw the full-size triangle accurately below.

Use a protractor (angle measurer) and a ruler.

One line has been drawn for you.

6cm

22i

22ii

2 marks

Fill in the three missing whole numbers in this calculation.

Each number is less than 10

$$\boxed{} \times \boxed{} \times \boxed{} = 105$$

23

_____
1 mark

Total out of 3 _____