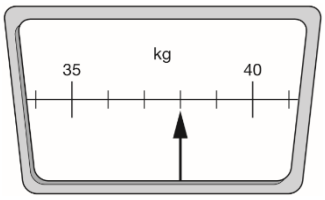
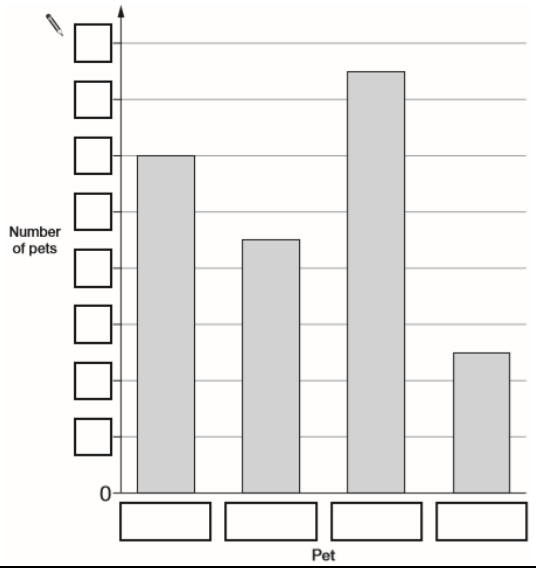


Q1. This scale shows how much Chen weighs. How much does Chen weigh?

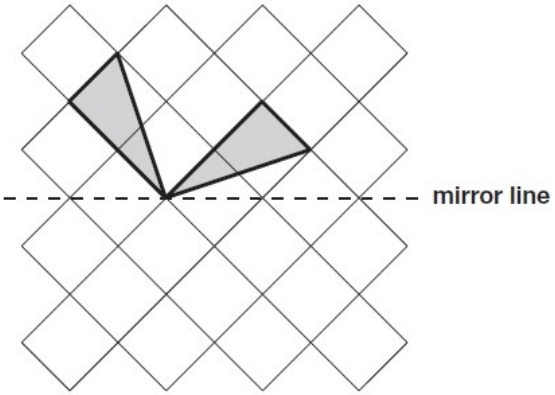
Q2. Alfie collected information about the pets owned by children in his class. Here are his results.

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.



Q3. Complete this shape so that it is symmetrical about the mirror line.



Q4. Circle three numbers that add to make 750

450 350 250 150 50

Q5. 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?

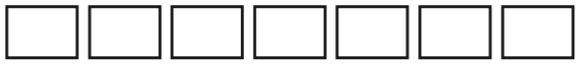
Seb has 77 cubes left over. He builds two more towers.
One tower uses 18 cubes and the other uses 35 cubes.
How many of his 77 cubes has he got left now?

Q6. In these calculations, each missing sign is a + or a –
Write the missing signs in the circles.

8 ◯ 7 ◯ 6 ◯ 5 = 2

8 ◯ 7 ◯ 6 ◯ 5 = 4

Q7. Megan has 7 coins that make one pound.
The coins are of only two different kinds.
What are the 7 coins?



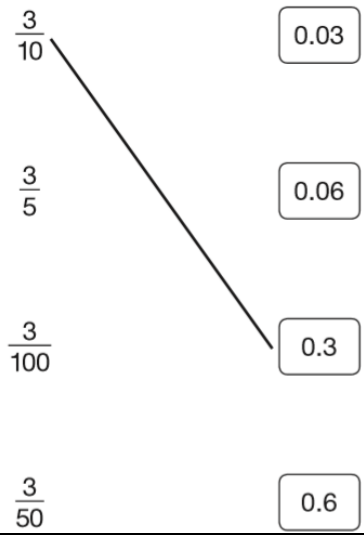
Q8. The numbers in this sequence increase by 10 each time.

3 13 23 …

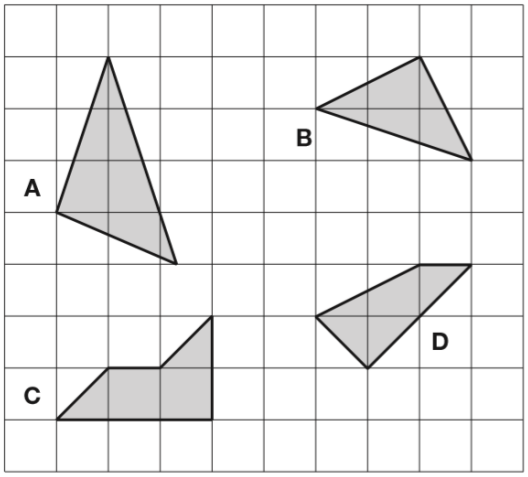
The sequence continues in the same way.
Write two numbers from the sequence that add to make a total of 96

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

Q9. Join each fraction to the correct decimal card. The first one has been done for you.



Q10. 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.

Q11. Calculate 32.18 – 7.62

Q12. Circle the approximate measurement.

The length of a banana is about …

2 cm 20 cm 2 mm 2 m 20 m

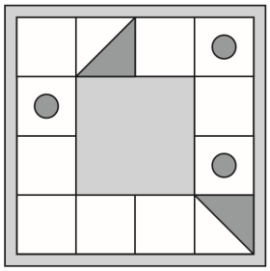
The mass of an apple is about …

2 g 20 kg 200 kg 200 g 2 kg

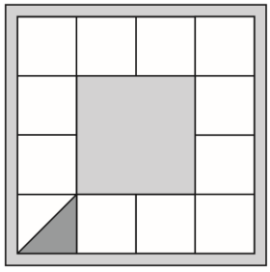
A glass of fruit juice is about …

2 ml 2 l 20 ml 200 ml 20 l

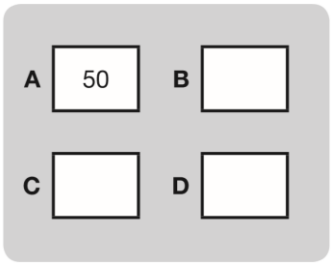
Q13. Here is a design of dots and triangles on a square tile.



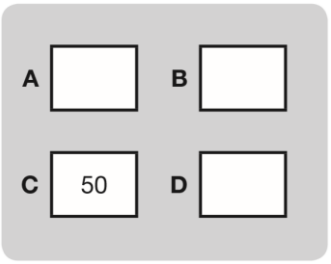
The tile is turned clockwise to the position below.
Shade the missing shapes in their new positions.



Q14. 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.



Now use the same rule for this diagram.



Q15. 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?

Q17. Write numbers in the boxes to make this calculation correct.

50 − ☐ = ☐ + 10

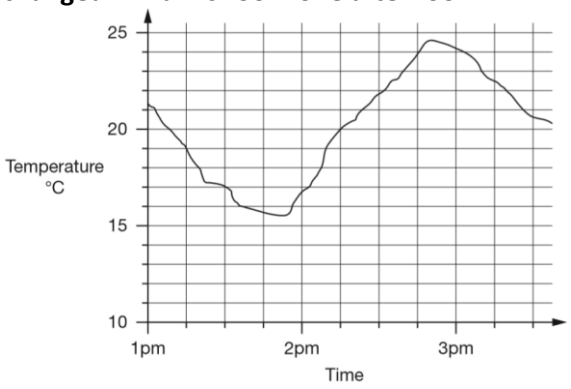
Q16. Amy did a survey of what time people get up on a Sunday morning.

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

This table shows her results for 150 people.
How many people get up at 8am or later?

Amy says, 'Two-thirds of the 150 people in the survey get up before 9am.'
Amy is correct. Explain how you know.

Q18. This graph shows how the temperature changed in Liam's room one afternoon.

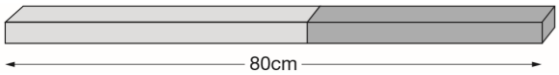


Estimate the temperature at 3:15pm.

Estimate the time when the temperature was highest.

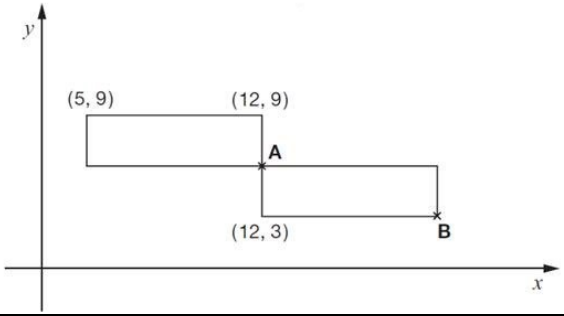
How much did the temperature change from 2pm to 2:30pm? Give your answer to the nearest degree.

Q19. Alfie has two sticks.
He puts them end to end.



One stick is 10cm longer than the other stick.
How long are the two sticks?

Q20. This diagram shows two identical rectangles on coordinate axes.
Write the coordinates of point A and point B.

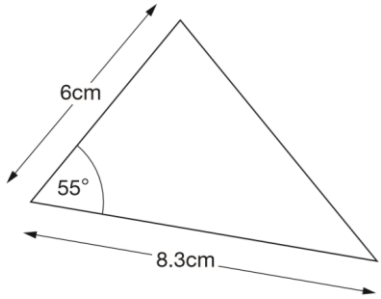


Q21. Amy thought of a number.
She added 0.5 to her number and then doubled the result.
Then she subtracted 0.5 and doubled the new result.
Her final answer was 61
What number did Amy start with?

Q23. Fill in the three missing whole numbers in this calculation.
Each number is less than 10

$$\square \times \square \times \square = 105$$

Q22. Here is a sketch of a triangle. It is not drawn to scale.



Draw the full-size triangle accurately below. Use a protractor (angle measurer) and a ruler. One line has been drawn for you.