Q1. This grid has a pattern of four circles on it.
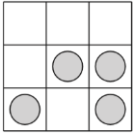
Write the letter of the grid below that has the same pattern as the grid above.
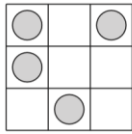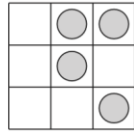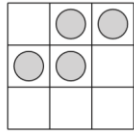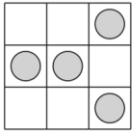
A   B   C
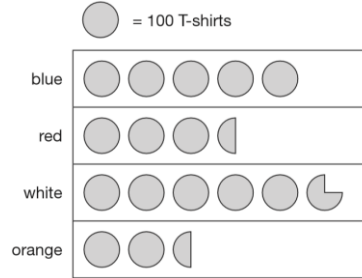
D   E
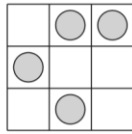
Q2. The numbers in this sequence increase by the same amount each time.
Write the two missing numbers.

| | 610 | 650 | 690 | |

Q3. A shop sells T-shirts. This chart shows how many T-shirts were sold in a month.

◯ = 100 T-shirts

blue
red
white
orange

Write the colours of the T-shirts that sold more than 400 in the month.

How many red T-shirts and orange T-shirts were sold altogether?

How many more white than blue T-shirts were sold?

Q4. Seb has to see the doctor at 10:05am.
He gets to the doctor's surgery at 9:52am.
How many minutes early is he?

He leaves the doctor's surgery at 10:25am.
He gets to school 45 minutes later.
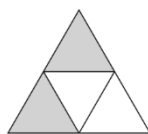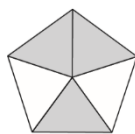What time does he arrive at school?

Q5. Write the three missing numbers in this multiplication grid.

×	8	5	
4		20	28
5	40		35
3	24	15	21

Q6. Each of these diagrams is divided into equal parts. Some of the parts are shaded.

A   B   C

D   E
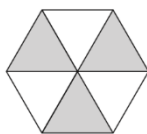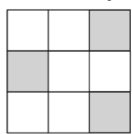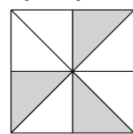
Write the letters of all the diagrams that have exactly $\frac{1}{2}$ shaded.

Write the letters of all the diagrams that have exactly $\frac{1}{3}$ shaded.

Q7. Liam buys two apples.
He pays with a £1 coin and gets 64p change.
How much does one apple cost?

Q8. In this shape, one of the angles is obtuse.
Tick the obtuse angle.

Q9. Here is a diagram for sorting numbers. Write each number in its correct place on the diagram.

2   20   201   2000

two-digit numbers   multiples of 5   three-digit numbers

Q10. Write the missing numbers to make these calculations correct.

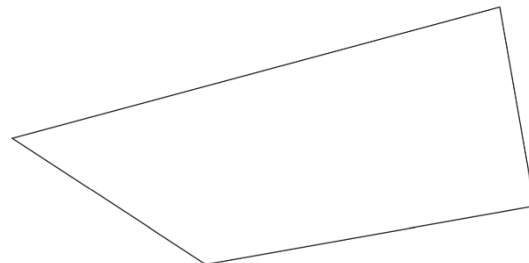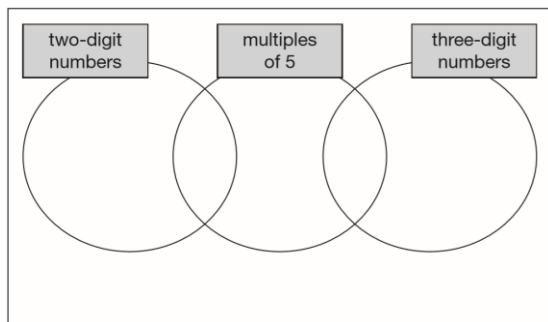$$200 \times \boxed{} - 200 = 200$$

$$\left(100 - \boxed{}\right) \times 100 = 100$$

Q11. Seb saved up for a new skateboard that cost £40
The table shows how much money he saved each week.

Week number	1	2	3	4	5	6	7	8	9	10
Amount saved	£5	£4	£2	£4	£3	£4	£6	£4	£3	£5

In which week did Seb reach half the amount he needed for the skateboard?

If Seb had saved an extra £1 each week, in which week would he have reached his target of £40?

Q12. This weather chart shows the highest and lowest temperatures in a town on five days in March.

	Temperature °C	
	highest	lowest
Monday	+7	0
Tuesday	+7	−2
Wednesday	+8	−2
Thursday	+9	+1
Friday	+4	−5

Which day has the greatest difference between the highest and the lowest temperatures?

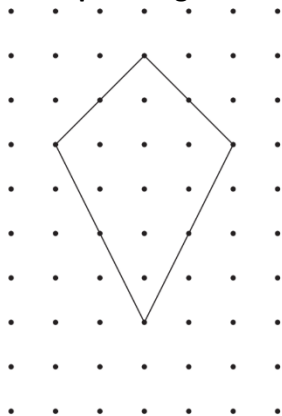What is the difference between the lowest temperatures on Thursday and Friday?

Q13. Chen and Megan each buy a sandwich.
Chen gets 5p change from £2
Megan gets £2.25 change from £5
How much more does Megan pay than Chen?

Q14. Here is a shape on a grid.

For each of the four sentences below, put a tick if it is true. Put a cross if it is not true.

1) The shape is a quadrilateral.

2) The shape has 2 lines of symmetry.

3) The shape is a parallelogram.

4) The shape has one right angle.

Q15. This shape is made out of four identical curves. The perimeter of the shape is 28 centimetres.
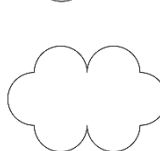
A new shape is made out of curves of the same size.
What is the perimeter of the new shape?
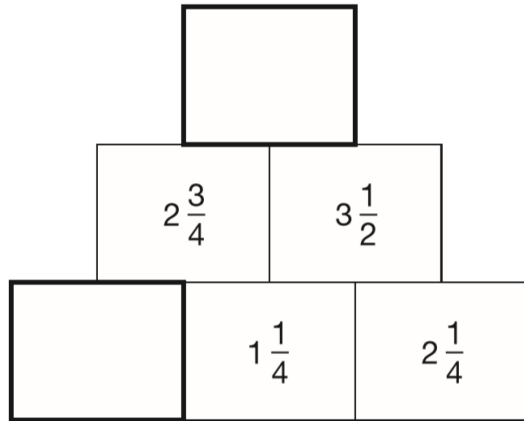
Q16. Calculate 465 × 52

Q17. Write these numbers in order, starting with the smallest.

8.12   1.8   8.118   8.2   1.28

smallest

Q18. In this diagram, the number in each box is the sum of the two numbers below it.
Write the missing numbers.

$$2\frac{3}{4} \qquad 3\frac{1}{2}$$

$$1\frac{1}{4} \qquad 2\frac{1}{4}$$

Q19. Liam did a survey of 55 people to see how many were left-handed.
Liam says, 'The results show that exactly 10% of the people in the survey are left-handed.'
Explain why Liam cannot be correct.

Q20. Chen is cooking some pasta.
The recipe says he needs 350 grams of pasta for 4 people.
How many <u>kilograms</u> of pasta does he need for <u>12</u> people?

Q21. Chen is thinking of three numbers.
He says, 'The range is 5. The mode is 2.'
What are his three numbers?

n stands for a whole number.
2n is greater than 30
5n is less than 100
Write all the numbers that *n* stands for.