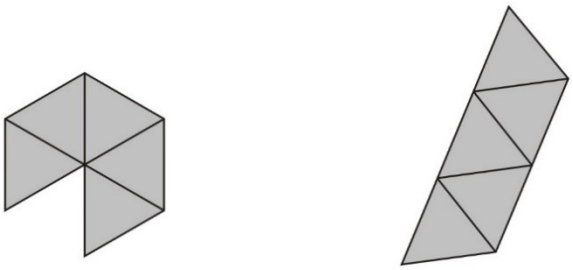
Q1. Write these numbers in order of size, starting with the smallest.

901	1091	910	109	190

smallest

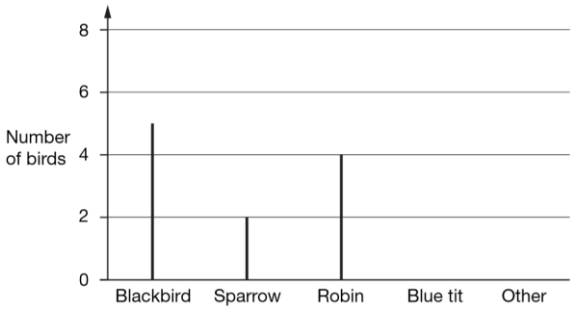
Q2. These two shapes are made from equilateral triangles.
Draw one line of symmetry on each shape.



Q3. Rosie collects data about birds visiting a bird table. Here are her results.

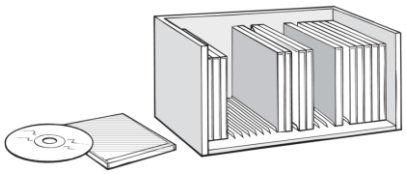
Blackbird	𝍸
Sparrow	||
Robin	𝍸 |
Blue tit	|||
Other	𝍸 |

Draw two more lines to complete the graph.



Rosie saw 20 birds altogether.
What fraction of the birds were blackbirds?

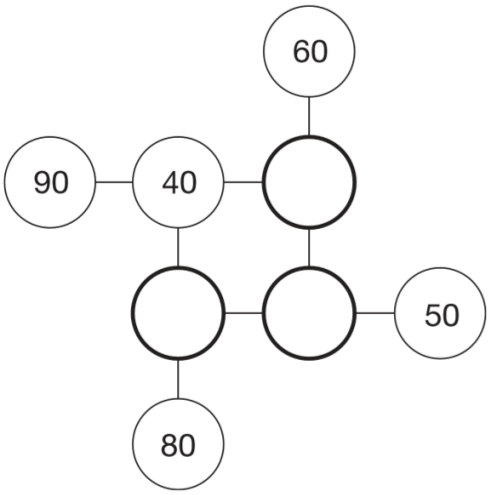
Q4. Here is a CD rack.



One rack holds 25 CDs. David has 83 CDs. How many racks does he need to hold all his CDs?

Lin has 6 racks full of CDs.
How many CDs does Lin have altogether?

Q5. Complete this diagram so that the three numbers in each line add up to 150



Q6. A clock shows this time.

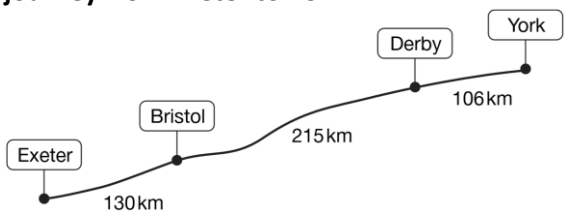
How long is it from this time until 5pm?

What time was it quarter of an hour before the time on the clock?

Q7. Lin needs to solve this problem.
'How many children are in the class?'
Tick all the information that Lin needs to solve her problem.
There are 9 girls in the class.
5 girls in the class wear glasses.
There are twice as many boys as girls in the class.

David needs to solve this problem.
'How much do two oranges and one apple cost?'
Tick all the information that David needs to solve his problem.
An orange costs 5p more than an apple.
An apple costs 20p
David has £1

Q8. The diagram shows distances on a train journey from Exeter to York.



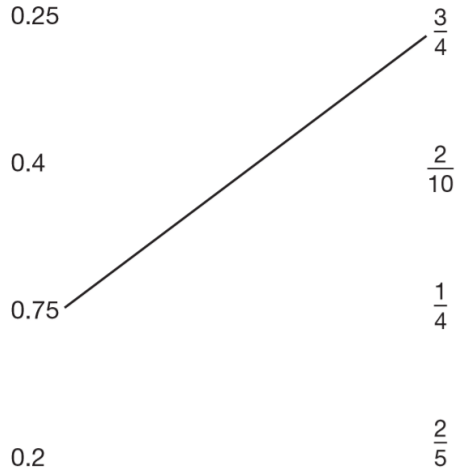
How many kilometres is it altogether from Exeter to York?

What is the distance from Derby to York rounded to the nearest 10km?

Q9. A rectangular swimming pool is 25 metres long and 10 metres wide. David swims 5 lengths. Rosie swims 12 widths. How much further does David swim than Rosie?

Q10. Calculate 2006 – 289

Q11. Match each decimal number to its equivalent fraction. One has been done for you.



Q12. Five children have ticked this table to show on which days they are free to go out.

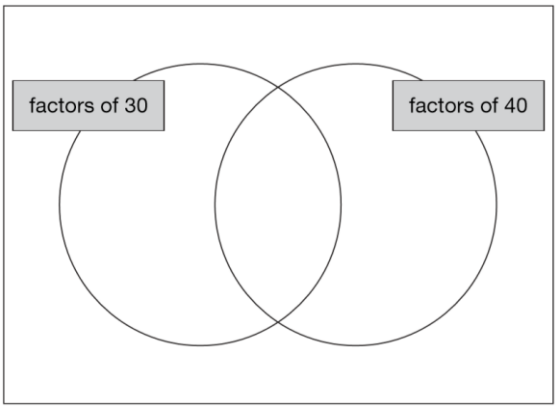
	Emma	David	Lin	Jack	Rosie
Mon		✓	✓		✓
Tue	✓		✓	✓	
Wed		✓			✓
Thu			✓	✓	✓
Fri	✓	✓			✓

On how many days are more than two children free to go out?

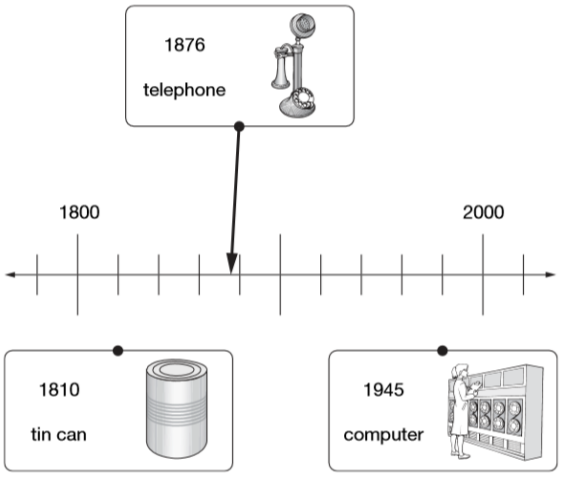
On which days are Lin and Rosie both free to go out together?

Q13. Write these numbers in the correct places on the diagram.

5 6 7 8



Q14. Here is part of a time line. Draw a line from each invention to the correct point on the time line. One has been done for you.



Q15. Here is a number chart. Every third number in the chart has a circle on it.

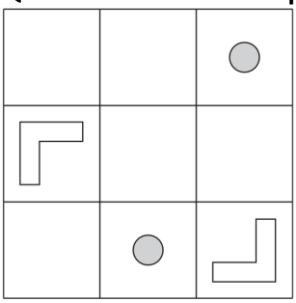
1	2	(3)	4	5
(6)	7	8	(9)	10
11	(12)	13	14	(15)
16	17	(18)	19	20
(21)	22			

The chart continues in the same way. Here is another row in the chart.
Draw the missing circles.

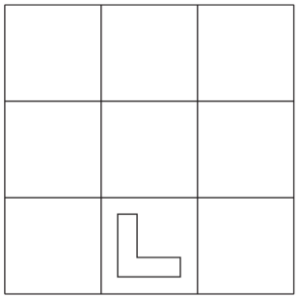
71	72	73	74	75

Will the number 1003 have a circle on it?
Explain how you know.

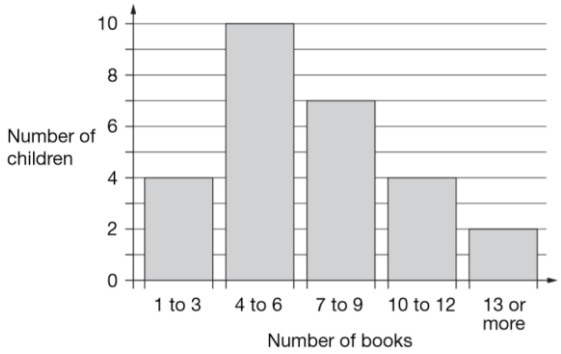
Q16. There are four shapes on this diagram.



The diagram is turned to the new position below.
Draw the three missing shapes.



Q17. This chart shows the number of books some children read last month.

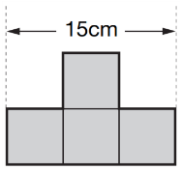


How many children altogether read more than 9 books?

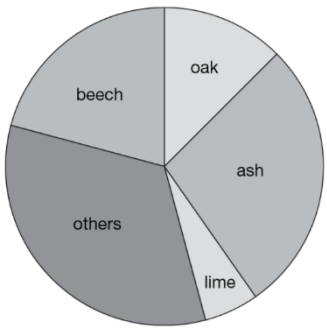
7 children read 4 books.
1 child read 5 books.
Lin says, 'That means 2 children read 6 books'.
Explain how she can work this out from the chart.

Q18. Calculate 52.85 + 143.6

Q19.



This shape is made from 4 shaded squares.
Calculate the perimeter of the shape.

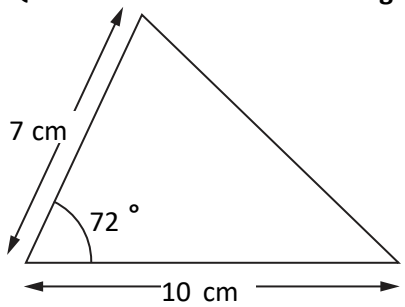


Q20. Class 6 did a survey of the number of trees in a country park. This pie chart shows their results.

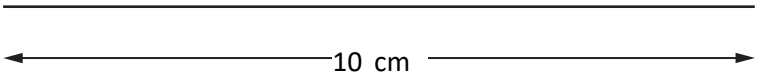
Estimate the fraction of trees in the survey that are oak trees.

The children counted 60 ash trees.
Use the pie chart to estimate the number of beech trees they counted.

Q21. 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.



Q22. Calculate 848 ÷ 16

Q23. *k* stands for a whole number.
***k* + 7 is greater than 100**
***k* – 7 is less than 90**
Find all the numbers that *k* could be.