SATs Key Points – Maths Test

Children will sit three papers in maths:

- Paper 1: arithmetic, 30 minutes
- Papers 2 & 3: solving problems and reasoning, 40 minutes per paper.

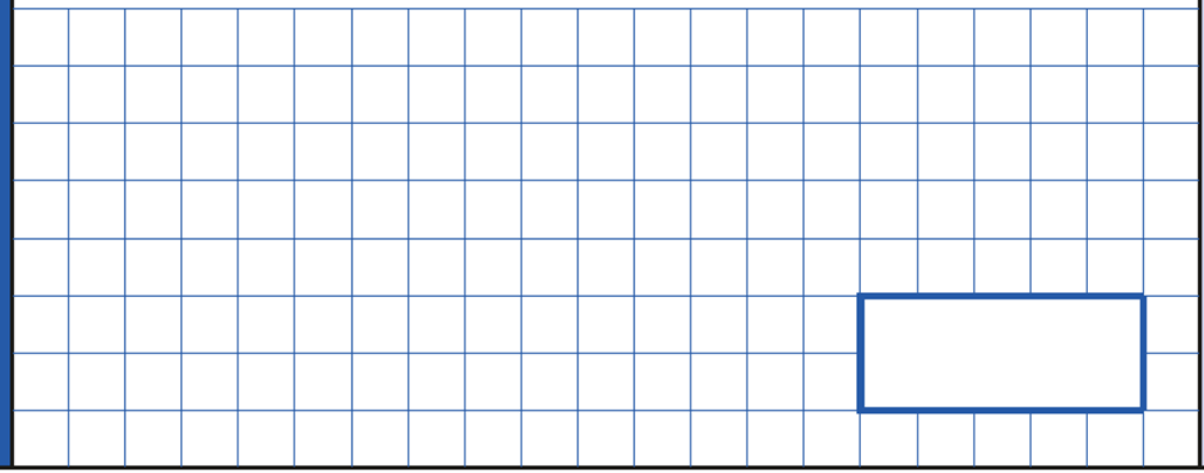
The strands of mathematics taught in Year 6 and covered in the tests are:

- Number and place value
- Calculating
- Fractions, decimals and percentages
- Ratio and proportion
- Algebra
- Measurement
- Geometry
- Statistics

Paper 1 - Arithmetic

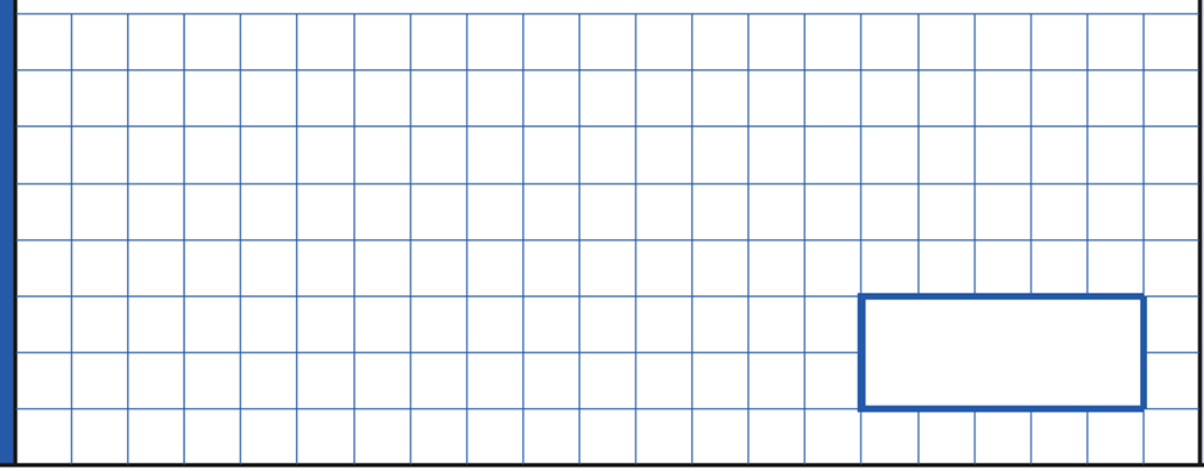
Paper 1 will consist of fixed response questions, where children have to give the correct answer to calculations involving all four operations and including fractions, decimals and percentages.

1 979 + 100 =



1 mark

3 6.1 + 0.3 =



1 mark

11 $630 \div 9 =$

1 mark

25 $1\,3\overline{)3\,0\,1\,6}$

Show your method

2 marks

18 $1.52 \times 6 =$

1 mark

23

$$\begin{array}{r} 54 \\ \times\ 23 \\ \hline \end{array}$$

Show your method

2 marks

26 $\frac{1}{4} \times \frac{1}{8} =$

1 mark

28 234,897 − 45,996 =

1 mark

Papers 2 & 3- solving problems and reasoning

Papers 2 & 3 will involve a number of question types, including:

- Word problems where the children are required to show their method
- Explaining why a statement is True or false
- Constrained questions, e.g. giving the answer to a calculation, drawing a shape or completing a table or chart
- Less constrained questions, where children will have to explain their approach for solving a problem.

1 Write the missing number.

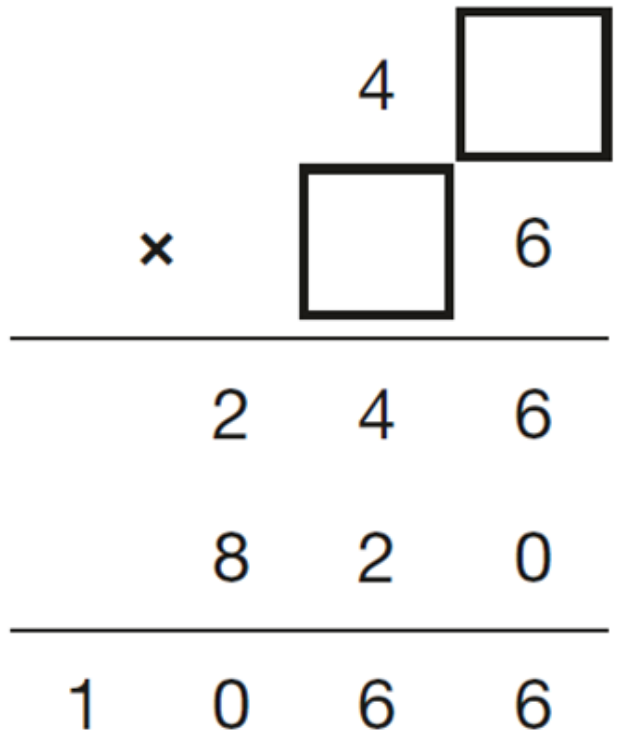
One is done for you.

180 → (is 20 more than) → 160

 → (is 20 more than) → 237

1 mark

10 Write the two missing digits to make this **long multiplication** correct.



2 marks

11 Here is a number written in Roman numerals.

CXV

Write the number in figures.

1 mark

16 Large pizzas cost £8.50 each.

Small pizzas cost £6.75 each.

Five children together buy one large pizza and three small pizzas.

They share the cost equally.

How much does each child pay?

Show your method

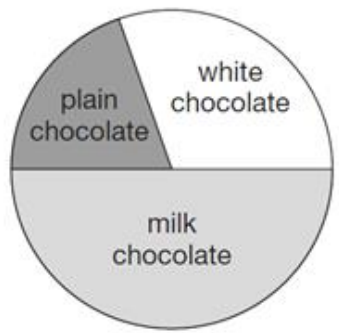
£

2 marks

18 100 girls and 50 boys were asked which kind of chocolate they like best.

These two pie charts show the results.

100 girls



50 boys

Dev says,

"The pie charts show that more girls than boys liked milk chocolate best."

Dev is correct.

Explain how you know.

1 mark

6 Here are six cards.

× 10	× 100	× 1000
÷ 10	÷ 100	÷ 1000

Use a card to complete each calculation.

5.3 ☐ = 0.53

5.3 ☐ = 5300

5.3 ☐ = 0.053

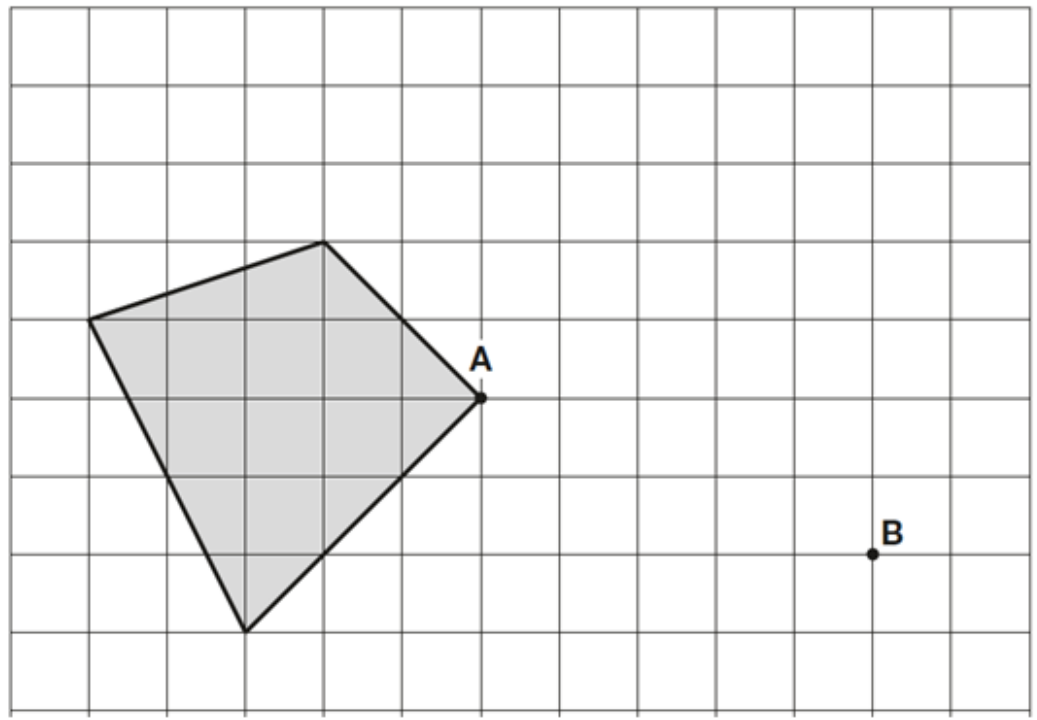
2 marks

8 Here is a shaded shape on a grid.

The shape is translated so that point **A** moves to point **B**.

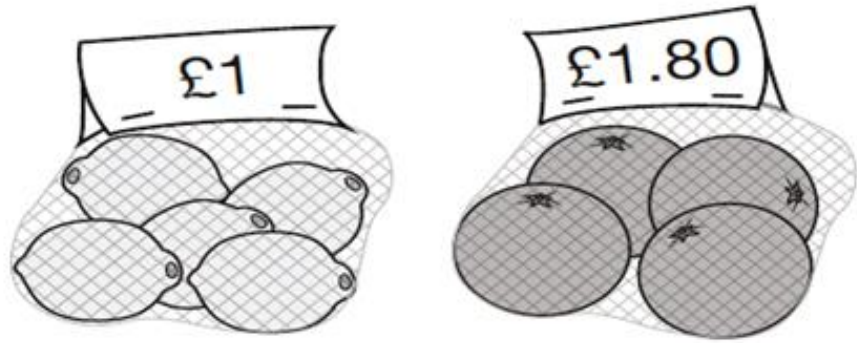
Draw the shape in its new position.

Use a ruler.



10 A bag of 5 lemons costs £1

A bag of 4 oranges costs £1.80

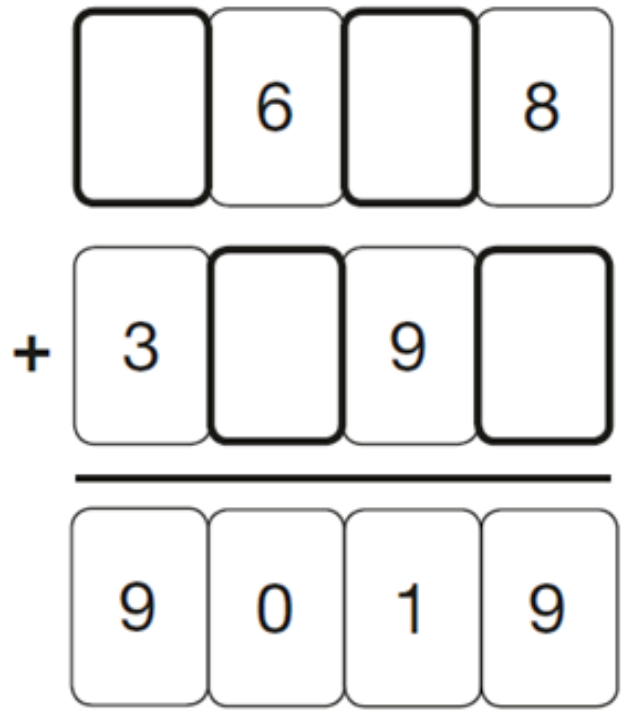


How much **more** does one orange cost than one lemon?

Show your method

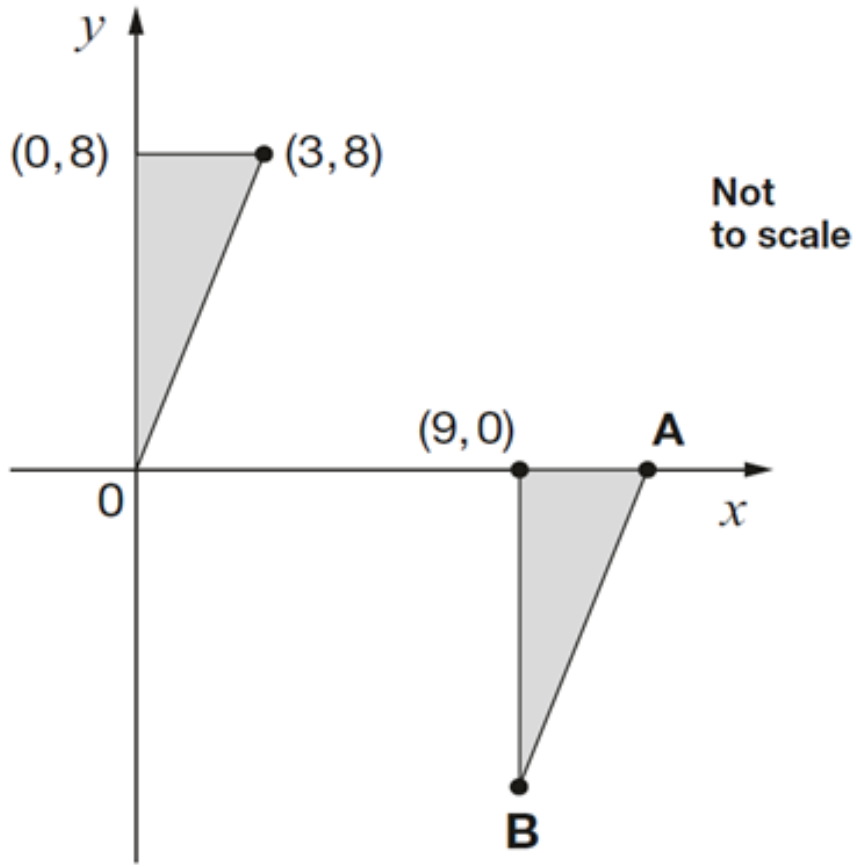
2 marks

11 Write the four missing digits to make this **addition** correct.



2 marks

20 Here are two **identical** shaded triangles on coordinate axes.



Write the coordinates of points A and B.

How can you help at home?

- Encourage children to complete their homework and hand it in on time.
- Times tables (up to 12x12) and corresponding division facts.
- Place value (up to 10 million).
- The four operations (addition, subtraction, multiplication and division).
- Real life problems: time (including duration), money, bus and train timetables, measures (in the kitchen, restaurant, petrol station, new baby’s weight…).