

Y6 SATs information

The Mathematics Key Stage Two SATs assesses children's skills and understanding from the Year 3, 4, 5 and 6 curriculum. The children will sit three maths papers: Arithmetic (out of 40 marks), Reasoning Paper 1 (out of 35 marks) and Reasoning Paper 2 (out of 35 marks). Depending on the question type, the children can achieve up to three marks per question.

Arithmetic Paper:

This paper focuses on children's competency with solving mathematical calculations. The questions become more complex as the paper progresses where the children will have 30 minutes to answer the questions. Key skills include:

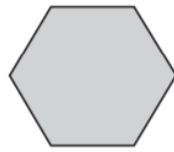
- Column addition and subtraction
- \times and \div by 10, 100, 1000
- Multiplying, adding and subtracting decimals
- Adding and subtracting fractions
- Long division (2 marks)
- Long multiplication (2 marks)
- Adding and Subtracting mixed fractions
- Multiplying fractions
- Percentages of amounts

Reasoning Papers:

Both papers assess the children's ability to solve mathematical problems which are applied to real-life contexts. They contain different question types including multiple choice, true or false, giving the answer to a calculation, drawing a shape or completing a table/chart and problem solving. The children will have 40 minutes to complete each paper. Below are examples of different question types and how the children obtain the marks for certain questions.

These two shapes have the **same** perimeter.

regular hexagon



square



Not actual size

The length of each side of the **hexagon** is **8** centimetres.

Calculate the **area** of the **square**.

Children need to draw on their knowledge of area and perimeter as well as properties of shapes (e.g. square having 4 equal sides).

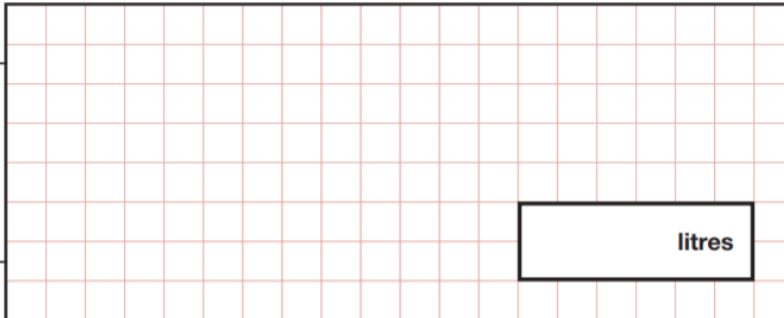
They then need to read and understand the two steps to get both marks.

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A machine pours 250 millilitres of juice every 4 seconds.

How many **litres** of juice does the machine pour every **minute**?

Show your method



litres

2 marks

To achieve both marks, children need to understand how many millilitres are in a litre and how many seconds are in a minute. They need to clearly show their workings out and convert their answer to litres at the end.