

If you have any questions, please ask them now.

[Pause for questions.]

Now we are ready to start.

I will read each question twice. You will then have five seconds to write down the answer.

Question 1	Write nought point four two as a percentage. Write nought point four two as a percentage.	Question 2	How many faces does a triangular pyramid have? How many faces does a triangular pyramid have?	Question 3	Look at the numbers on your answer sheet. Draw a ring around the smallest number. Look at the numbers on your answer sheet. Draw a ring around the smallest number.	Question 4	Work out the answer to the calculation written on your answer sheet. Work out the answer to the calculation written on your answer sheet.	Question 5	The circumference of a circle is approximately three times its diameter. What is the circumference of a circle whose diameter is five point two centimetres? The circumference of a circle is approximately three times its diameter. What is the circumference of a circle whose diameter is five point two centimetres?
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For the next questions, you will have ten seconds to write down the answer.

Question 6	Add together the square root of twenty-five and the square root of thirty-six. Add together the square root of twenty-five and the square root of thirty-six.	Question 7	Two of the angles in an isosceles triangle are seventy degrees and forty degrees. What is the size of the third angle? Two of the angles in an isosceles triangle are seventy degrees and forty degrees. What is the size of the third angle?
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Question 8	Look at the calculation on your answer sheet. Write down the answer. Look at the calculation on your answer sheet. Write down the answer.	Question 9	Find the volume of a cuboid with sides that measure two centimetres, three centimetres and seven centimetres. Find the volume of a cuboid with sides that measure two centimetres, three centimetres and seven centimetres.	Question 10	Write four hundred over a thousand as a decimal. Write four hundred over a thousand as a decimal.	Question 11	An equilateral triangle with sides eight centimetres long is enlarged by a scale factor of two point five. Calculate the length of the sides of the enlarged triangle. An equilateral triangle with sides eight centimetres long is enlarged by a scale factor of two point five. Calculate the length of the sides of the enlarged triangle.	Question 12	The price of mobile phones is reduced by twenty per cent. What is the saving on a phone costing three hundred and twenty pounds? The price of mobile phones is reduced by twenty per cent. What is the saving on a phone costing three hundred and twenty pounds?	Question 13	Multiply six hundred by nought point three. Multiply six hundred by nought point three.	Question 14	One sixth of a jar of sweets contains eleven sweets. How many sweets does the jar contain when it is full? One sixth of a jar of sweets contains eleven sweets. How many sweets does the jar contain when it is full?	Question 15	The probability of choosing an Ace from a pack of cards is four out of fifty-two. What is the probability of not selecting an Ace? The probability of choosing an Ace from a pack of cards is four out of fifty-two. What is the probability of not selecting an Ace?
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For the next questions, you will have fifteen seconds to write down the answer.

After students have finished the *Mental Maths* section they should complete the *Applying and Understanding Maths* section on their own. The teacher **should not** read out the questions.

Read out the following instructions:

- You will have 60 minutes to do this test.
- If you are not clear what to do, put up your hand. (Questions relating to procedure can be answered, but otherwise students should be told to 'do the best you can' or 'do what you think is best'.)
- Try each question, but if there is one that you cannot do then go on to the next one and come back to it later.
- You can do any rough working in the space around each question.
- Write clearly and if you make a mistake then cross (or rub) it out carefully and write the correct answer clearly.
- When you have finished, go back and check your answers.

When all the students are ready, tell them to open their booklets on the page after the *Mental Maths* questions and start work.

Question 16	Your answer sheet shows part of a sequence of numbers. All the numbers in the sequence are greater than zero. Write down what the first number in the sequence should be. Your answer sheet shows part of a sequence of numbers. All the numbers in the sequence are greater than zero. Write down what the first number in the sequence should be.	Question 17	Look at the numbers on your answer sheet. Draw a ring around the largest value. Look at the numbers on your answer sheet. Draw a ring around the largest value.	Question 18	Look at the set of numbers on your answer sheet. Calculate their mean. Look at the set of numbers on your answer sheet. Calculate their mean.	Question 19	A car travels at an average speed of sixty kilometres per hour. How far does it travel in two and a half hours? A car travels at an average speed of sixty kilometres per hour. How far does it travel in two and a half hours?	Question 20	Look at the equation on your answer sheet. Find the value of x . Look at the equation on your answer sheet. Find the value of x .
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Put down your pen or pencil. The test is now finished.



Published by GL Assessment, 1st Floor, Vantage London, Great West Road, Brentford, TW8 9AG
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978-0-7087-2375-3

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