

approx. 15 minutes

Mathematics Paper 3

Stage 7

READ THESE INSTRUCTIONS FIRST

1. Students should only have pens and answer sheet. They are not allowed to have any other mathematical equipment or paper for working out.
2. The teacher will need a watch or clock that tells the time accurately in seconds.
3. The teacher should read each question twice slowly and then wait the correct number of seconds (5 seconds for questions 1–15 and 10 seconds for questions 16–20) before moving on to the next question.
4. Students are not allowed to ask questions during the test.

Read the text in italics to the students:

Listen carefully to these instructions. You will not have the opportunity to ask questions during the test.

You will be asked 20 questions. On your sheet there is an answer box for each question. You should work out your answers in your head. Do not try to write down your calculations because this will take up too much time. For some of the questions, important information is already written down for you on the sheet.

Each question will be read aloud twice. You will then have time to work out your answer. If you don't know the answer to the question, leave it and wait for the next question. If you want to change your answer, put a cross through your first answer and write your new answer nearby.

For the first group of questions you will have 5 seconds to work out each answer. For the second group of questions you will have 10 seconds to work out each answer. Each question is worth the same amount.

Do you have any questions about the test?

(Answer any questions the students may have.)

Write your name on the front of the answer sheet.

(Begin the test.)

Now we are ready to start the test.

For this first group of questions, you will have 5 seconds to work out each answer and write it down.

- 1 What number added to thirty-eight makes one hundred?
- 2 Divide forty-two by six.
- 3 Work out one fifth of forty-five dollars.
- 4 How many millimetres are there in thirteen centimetres?
- 5 Look at the pentagon on your answer sheet.
Write down the size of angle AED.
- 6 Look at the calculation on your answer sheet.
Insert brackets to make the answer forty.

- 7 Liam is x years old.
Zara is four years older than Liam.
Write down an expression for Zara's age.
- 8 What is the probability that a fair coin lands on a head when it is thrown?
- 9 Look at the angle on your answer sheet.
Estimate the size of the angle marked x .
- 10 Take thirty-nine away from one hundred and twenty-eight.
- 11 Look at the numbers on your answer sheet.
Write down the number that is divisible by three.
- 12 Look at the sequence of numbers on your answer sheet.
What is the next term in this sequence?
- 13 Subtract two point seven from nine.
- 14 A train leaves a station at ten fifteen am.
It arrives at its destination at eleven forty five am.
How long does the journey take?
- 15 Look at the calculation on your answer sheet.
What is two thousand and seventy two divided by thirty seven?

For this group of questions, you will have 10 seconds to work out each answer and write it down.

- 16 A shirt costs twenty dollars.
In a sale prices are reduced by thirty percent.
What is the reduction in the price of the shirt?
- 17 Work out seventeen divided by three.
Give your answer as a mixed number.
- 18 Look at the drawing of a cube on your answer sheet.
What is the volume of this cube?
- 19 Look at the probability scale on your answer sheet.
What is the probability that an odd number is a multiple of two?
Mark your answer on the scale with a cross.
- 20 Look at the pictogram on your answer sheet.
In a survey people are asked if they are right or left-handed.
Fifteen people say they are right-handed.
How many people are left-handed?

Now put down your pen. The test has finished.

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