

Cambridge Secondary 1 Progression Test

Teacher instructions

Cambridge
Secondary 1

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 Divide fifty-six by eight.
- 2 Harry has n dollars.
William has double the amount of money that Harry has.
Write down an expression for the number of dollars William has.
- 3 What number added to twenty-six makes one hundred?
- 4 Look at the numbers on your answer sheet.
Write down the mode.
- 5 Multiply zero point four by seven.
- 6 Look at the angle on your answer sheet.
Estimate the size of the angle marked x to the nearest ten degrees.

- 7 Look at the mixed number on your answer sheet.
Change three and two fifths to an improper fraction.
- 8 Look at the triangular prism on your answer sheet.
How many edges does a triangular prism have?
- 9 Taran has sixty bananas.
He sells twenty percent of his bananas.
How many bananas does Taran sell?
- 10 If x equals three and y equals five what does two x plus y equal?
- 11 Look at the calculation on your answer sheet.
What is ten point three two take away two point three seven?
- 12 Look at the numbers on your answer sheet.
Put a ring around the number that has been rounded to the nearest ten.
- 13 Look at the spinner on your answer sheet.
Write down the mutually exclusive outcomes when this spinner is spun once.
- 14 Change thirty thousand square centimetres into square metres.
- 15 The ratio of red to orange beads is two to five.
What fraction of the beads are red?

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

- 16 Look at the calculation on your answer sheet.
Put a ring around the correct answer to two hundred and twenty seven divided by twenty.
- 17 Look at the shapes on your answer sheet.
Put a ring around the shape with two lines of symmetry *and* rotational symmetry of order two.
- 18 Look at the net of the cube with side length three centimetres.
What is the surface area of this cube?
- 19 Look at the pie chart of favourite colours.
The outside of the circle is marked into eight equal sections.
Twelve people chose pink.
How many people chose yellow?
- 20 Look at the rectangle made from twenty squares.
What percentage of the rectangle is shaded?

Now put down your pen. The test is finished.

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