

Westminster School Challenge 2019

Mental Test

5 minutes

There are five questions in this test.

Each question will be read twice. You will then be given an appropriate time to record your answer.

No other repetitions or explanations will be given.

THESE QUESTIONS ARE TO BE DONE MENTALLY.

YOU MAY NOT DO ANY ROUGH WORKING.

WRITE YOUR ANSWERS IN THE BOXES PROVIDED.

DO NOT WRITE ANYTHING ELSE ON THE ANSWER PAPER.

- 1 What is four times seven times three?
- 2 What is two point seven plus three point four?
- 3 What is the remainder when one hundred and fifty is divided by twelve?
- 4 What percentage of forty is eighteen?
- 5 Calculate three divided by four sevenths and write your answer as a decimal.

Westminster School Challenge

Calculation Test 2019

10 minutes

Name

ANSWER EACH QUESTION IN THE SPACE PROVIDED.
SHOW ALL YOUR WORKING.

- 1** A music exam is scheduled to start at 9:45. The candidate must perform four pieces, each lasting 6 and a half minutes, a sight-reading study, lasting 5 minutes, and an aural test, lasting 8 minutes. If there are no breaks between each element, when is the exam scheduled to end?

Answer 1

- 2** What is $11 \cdot 2 \times 0 \cdot 075$?

Answer 2

- 3** Work out $5 \times (5 + 5) - 5 \div ((5 + 5) - 5 \times 5)$.

Answer 3

- 4** Calculate the square of 2019.

Answer 4

TURN OVER

- 5 A machine part originally costs £14·40.
If it is later discounted by $17\frac{1}{2}\%$, what is its new price?

Answer 5

- 6 What is $3\frac{5}{8} - 1\frac{1}{3} + 2\frac{1}{4}$?

Answer 6

- 7 A barrel contain 216 litres of water. How long does it take for one quarter of the water to leak out at a rate of 1·2 litres per minute?

Answer 7

- 8 The two parallel sides of a trapezium have lengths 4·3 and 6·1 cm.
The area of the trapezium is $18\cdot2\text{ cm}^2$. Calculate its height.

Answer 8

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Mental Test

Name

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Write your answers in the boxes provided.

Write your name and candidate number at the top of the page.

DO NOT WRITE ANYTHING ELSE ON THIS ANSWER PAPER.

1	
2	
3	
4	
5	