



Test Papers
Hub.

EduTest Year 11 Entry Practice Paper 1

Mathematics

60 questions · 4 options each (A–D) · 30 minutes · No calculator

How to use this booklet

- There are 60 questions in this section. For each question there are four possible answers, A, B, C and D. Choose the one correct answer.
- This is an achievement test on the school curriculum: number, measurement, algebra, space and data. Use rough paper for working.
- Calculators are not allowed. You have 30 minutes. You will not lose marks for wrong answers, so attempt every question.

MATHEMATICS — 60 QUESTIONS

Multiple choice · 30 minutes

Work through the questions in order. If a question stalls you, move on and come back. Then check your work against the worked solutions.

1. In triangle ABC, angle A measures 61° and angle B measures 62° . What is the measure of the exterior angle at C (formed by extending side BC)?

- A 237
- B 123
- C 57
- D 119

2. A taxi company charges a flat fee of \$4 plus \$3 for each mile traveled. A passenger paid \$58. How many miles did the passenger travel?

- A 22
- B 18
- C $\frac{58}{3}$
- D 54

3. What is 10% of 160?

- A 16
- B 144
- C 32
- D 1,600

4. What is $3.5 + 5.3$?

- A 0.88
- B 8.9
- C 8.8
- D 88

5. What is $\frac{1}{3} + \frac{1}{4}$? Give the answer in simplest form.

- A $\frac{2}{7}$
- B $\frac{1}{12}$
- C $\frac{2}{3}$
- D $\frac{7}{12}$

6. A trapezoid has parallel sides of length 9 cm and 17 cm, and a height of 11 cm. What is its area, in square centimeters?

- A 286
- B 116
- C 154
- D 143

7. If $f(x) = x^2 + 3x + 8$, what is $f(-4)$?

- A 13
- B 12
- C -20
- D -4

8. What value of x satisfies $5x - 10 = 9x + 4$?

- A 1
- B $-\frac{5}{2}$
- C $-\frac{7}{2}$
- D $\frac{7}{2}$

9. A prize of \$35 is divided between two people in the ratio 2 : 5. What is the larger share, in dollars?

- A 25
- B 10
- C 17
- D 5

MATHEMATICS — 60 QUESTIONS

Answers & worked solutions

Answer Key

1 B	2 B	3 A	4 C	5 D	6 D
7 B	8 C	9 A	10 B	11 D	12 D
13 C	14 C	15 B	16 B	17 C	18 C
19 A	20 D	21 B	22 A	23 C	24 A
25 C	26 C	27 A	28 A	29 D	30 A
31 D	32 C	33 C	34 D	35 A	36 B
37 B	38 A	39 A	40 D	41 C	42 D
43 B	44 B	45 D	46 A	47 D	48 A
49 A	50 C	51 A	52 B	53 C	54 D
55 B	56 B	57 D	58 B	59 C	60 D

1. In triangle ABC, angle A measures 61° and angle B measures 62° . What is the measure of the exterior angle at C (formed by extending side BC)? [Angles]

Correct answer: B — 123

- An exterior angle of a triangle equals the sum of the two opposite interior angles.
- $61^\circ + 62^\circ = 123^\circ$.
- (Check: interior C = $180 - 123 = 57$, and $57 + 123 = 180$.)
- Why the other options are wrong:
- A (237): Not the right total.
- C (57): That is the interior angle at C.
- D (119): Use both of the far-away angles.

LOS: Mathematics: angles

KEY TAKEAWAY

Triangle angles total 180° ; a polygon's interior angles total $(n - 2) \times 180^\circ$; any polygon's exterior angles total 360° .

2. A taxi company charges a flat fee of \$4 plus \$3 for each mile traveled. A passenger paid \$58. How many miles did the passenger travel? [Linear models]

Correct answer: B — 18

- Write the cost as an equation: $\text{cost} = 4 + 3 \times \text{miles}$.
- $\$58 = 4 + 3 \times m$, so $3 \times m = 58 - 4 = 54$.