



**Test Papers
Hub.**

EduTest Year 10 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. A triangle has a base of 4 inches and a height of 10 inches. What is its area, in square inches?

- A 24
- B 40
- C 14
- D 20

2. What is $\frac{1}{3} + \frac{2}{5}$? Give the answer in simplest form.

- A $\frac{11}{15}$
- B $\frac{4}{5}$
- C $\frac{3}{8}$
- D $\frac{2}{15}$

3. Write the ratio 16 : 28 in its simplest form.

- A 5 : 7
- B 8 : 14
- C 7 : 4
- D 4 : 7

4. A meal costs \$60 before tax. A 15% sales tax is added, and then a 20% tip is calculated on the pre-tax price. What is the total paid, in dollars?

- A \$82.80
- B \$21.00
- C \$81.00
- D \$95.00

5. What is 11.2×9.4 ?

- A 105.38
- B 105.28
- C 10.528
- D 1052.8

6. What value of x satisfies $8x + 3 = 5x - 10$?

- A $-\frac{10}{3}$
- B -1
- C $-\frac{13}{3}$
- D $\frac{13}{3}$

7. A prize of \$60 is divided between two people in the ratio 2 : 3. What is the larger share, in dollars?

- A 36
- B 24
- C 12
- D 30

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

- A 48
- B 27
- C 16
- D 24

9. Estimate 615×93 by rounding each number to its leading digit (first digit).

- A 540,000
- B 54,000
- C 5,400
- D 690

MATHEMATICS — 60 QUESTIONS

Answers & worked solutions

Answer Key

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

1. A triangle has a base of 4 inches and a height of 10 inches. What is its area, in square inches? [Area]

Correct answer: D — 20

- Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height}$.
- $\frac{1}{2} \times 4 \times 10 = 20$ square inches.
- Why the other options are wrong:
 - A (24): This is the correct answer (20) plus 4: an extra 4 was added at the end of the calculation (an off-by-4 error).
 - B (40): A triangle is HALF the rectangle: remember the $\frac{1}{2}$.
 - C (14): Area multiplies, not adds.

LOS: Mathematics: area

KEY TAKEAWAY

Break a shape into pieces you know (rectangles, triangles, circles), find each area, then add or subtract.

2. What is $\frac{1}{3} + \frac{2}{5}$? Give the answer in simplest form. [Fraction operations]

Correct answer: A — $\frac{11}{15}$

- Use a common denominator: 15.
- Add the tops over that denominator.
- Simplify: $\frac{11}{15}$.
- Why the other options are wrong: