



**Test Papers**  
**Hub.**

# EduTest Year 9 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. Sam walks 7 km and 500 m. How many metres is that altogether?**

- A 507 m
- B 7,000 m
- C 1,200 m
- D 7,500 m

**2. The table shows the favourite pets of some children. How many children chose Cats and Fish altogether?**

Favourite pets

| Pet     | Number of children |
|---------|--------------------|
| Birds   | 149                |
| Cats    | 43                 |
| Rabbits | 21                 |
| Fish    | 74                 |

- A 31
- B 118
- C 117
- D 287

**3. A shape is made of a rectangle that is 16 units long and 8 units wide, with a semicircle attached to one of the 8-unit ends (the diameter of the semicircle is 8). What is the total area, in square units?**

- A  $128 + 8\pi$
- B  $132 + 8\pi$
- C  $128 + 16\pi$
- D  $128 + 32\pi$

**4. A parcel weighs 5 kg and 400 g. What is its mass in grams?**

- A 405 g
- B 5,400 g
- C 900 g
- D 5,000 g

**5. Pia buys 14 packs of stamps. Each pack has 3 stamps. Then Pia gives away 12. How many stamps does Pia have left?**

- A 33
- B 54
- C 5
- D 30

**6. A taxi company charges a flat fee of \$9 plus \$5 for each mile traveled. A passenger paid \$99. How many miles did the passenger travel?**

- A 18
- B  $\frac{99}{5}$
- C 27
- D 90

**7. Estimate  $980 \times 40$  by rounding each number to its leading digit (first digit).**

- A 40,000
- B 4,000
- C 400,000
- D 1,040

**8. The mean of 8 numbers is 25. Of these, 7 numbers are 31, 20, 24, 30, 29, 31, 30. What is the remaining number?**

- A 25
- B 5
- C 13
- D 45

# MATHEMATICS — 60 QUESTIONS

Answers & worked solutions

## Answer Key

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

1. Sam walks 7 km and 500 m. How many metres is that altogether? [Length]

**Correct answer: D — 7,500 m**

- 1 kilometre = 1,000 metres.
- 7 km = 7000 m.
- $7000\text{ m} + 500\text{ m} = 7500\text{ m}$ .
- Why the other options are wrong:
  - A (507 m): Change the kilometres into metres first.
  - B (7,000 m): Don't forget the extra metres.
  - C (1,200 m): 1 km is 1,000 m, not 100 m.

LOS: Mathematics: length

### KEY TAKEAWAY

Change to the same unit before you add or compare:  $1\text{ m} = 100\text{ cm}$  and  $1\text{ km} = 1,000\text{ m}$ .

2. The table shows the favourite pets of some children. How many children chose Cats and Fish altogether? [Reading tables]