

EduTest Year 11 Entry Practice Paper 1

Numerical Reasoning

50 questions · 5 options each (A–E) · 30 minutes · No calculator

How to use this booklet

- There are 50 questions in this section. For each question there are five possible answers, A, B, C, D and E. Choose the one correct answer.
- This is an ability test: it checks how well you spot patterns and reason with numbers, not formulas you have memorised. Work swiftly.
- Calculators are not allowed. You have 30 minutes. You will not lose marks for wrong answers, so attempt every question.

NUMERICAL REASONING — 50 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. 55 is to 91 as 11 is to ____ .

- A 50
- B 48
- C 46
- D 83
- E 47

2. What is 3.8×0.6 ?

- A 22.8
- B 2.28
- C 228
- D 4.4
- E 0.23

3. The table shows how many passengers a ferry carried each trip. Each passenger pays \$3. What was the total fare revenue?

Trip	Passengers
Mon	41
Tue	54
Wed	19
Thu	19

- A 396
- B 399
- C 133
- D 648
- E 402

4. 6 numbers have a mean of 25. Of these, 5 numbers are 29, 28, 24, 30, 31. What is the remaining number?

- A 9
- B 7
- C 25
- D 8
- E 17

5. 3 is to 45 as 11 is to _____. What number completes the pair?

- A 180
- B 154
- C 165
- D 53
- E 176

6. What number comes next? 17, 23, 28, 34, 39, 45, 50, ?

- A 50
- B 57
- C 55
- D 61
- E 56

7. The table shows the points scored. How many more points did the top scorer have than the lowest scorer?

Name	Points
Ben	57
Eli	61
Ana	51
Cara	60

- A 10
- B 11
- C 61
- D 112
- E 9

NUMERICAL REASONING — 50 QUESTIONS

Answers & worked solutions

Answer Key

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

1. 55 is to 91 as 11 is to ____ . [Analogies]

Correct answer: E — 47

- Compare 55 and 91: the difference is 36.
- So the rule is +36.
- $11 + 36 = 47$.
- Why the other options are wrong:
 - A (50): The first pair adds 36; it does not multiply.
 - B (48): This is the correct answer (47) plus 1: an extra 1 was added at the end of the calculation (an off-by-1 error).
 - C (46): This is the correct answer (47) minus 1: 1 was taken off at the end of the calculation (an off-by-1 error).
 - D (83): Add just once.

LOS: Numerical reasoning: [analogies]

KEY TAKEAWAY

Always ask whether a pair differs by a fixed amount (add) or a fixed factor (multiply).

2. What is 3.8×0.6 ? [Decimals]

Correct answer: B — 2.28

- Ignore the decimal points: $38 \times 6 = 228$.
- Count decimal places: $1 + 1 = 2$, so the answer is 2.28.
- Why the other options are wrong: