ENGLAND GCSE MATHS OCR FOUNDATION · UNIT 7 · 25 QUESTIONS

Ratio, Proportion and Percentages — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The ratio of lemons to oranges is 2 : 6. There are 4 lemons. How many oranges are there?**

- **A** 4
- **B** 16
- **C** 13
- **D** 12

Understand It with Pulse | Flag a mistake

2 **The ratio of burgers to chicken nuggets on a school lunch tray is 3 : 5. There are 15 burgers. How many chicken nuggets are there?**

- A 25
- B 26
- C 15
- D 40

Understand It with Pulse | Flag a mistake

3 **A chocolate cake recipe for 4 people uses 300 g of flour. How much flour is needed for 8 people?**

- A 750
- B 600
- C 650
- D 300

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4 **Red apples cost £10 for 5 kg. How much do 8 kg of red apples cost?**

- A £10
- B £18
- C £16
- D £80

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5 **There are 200 silver coins. 35% of them are old. How many old silver coins are there?**

- A 80
- B 35
- C 135
- D 70

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6 **Glass marbles are shared between two children in the ratio 3 : 4. There are 42 marbles altogether. The smaller share is**

- A 24
- B 19
- C 18
- D 42

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7 **The exchange rate is £1 = 1.10 euros. How many euros do you get for £100?**

- A 90.91
- B 110
- C 120
- D 100

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8 **The ratio of boys to girls in a class is 4 : 5. What fraction of the class are boys?**

- **A** $\frac{5}{9}$
- **B** $\frac{4}{5}$
- **C** $\frac{2}{5}$
- **D** $\frac{4}{9}$

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9 **Find 35% of 240**

- **A** 42
- **B** 96
- **C** 156
- **D** 84

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10 **Write the ratio 32 : 8 in its simplest form**

- A 4 : 1
- B 32 : 8
- C 1 : 4
- D 8 : 2

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11 **On a map, 1 cm represents 10 km. Two towns are 6 cm apart on the map. How far apart are they in real life, in km?**

- A 60
- B 70
- C 120
- D 6

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12 **A wage of £240 per week increases by 15%. The new weekly wage is**

- A £255
- B £245
- C £286
- D £276

Understand It with Pulse | Flag a mistake

13 **The exchange rate is £1 = 1.20 euros. How many euros do you get for £400?**

- A 490
- B 470
- C 480
- D 333.33

Understand It with Pulse | Flag a mistake

14 The ratio of boys to girls in a class is 5 : 4. What fraction of the class are boys?

- **A** $\frac{5}{9}$
- **B** $\frac{4}{9}$
- **C** $\frac{5}{4}$
- **D** $\frac{2}{3}$

Understand It with Pulse | Flag a mistake

15 Find 65% of 240

- **A** 168
- **B** 78
- **C** 84
- **D** 156

Understand It with Pulse | Flag a mistake

16 **Write the ratio 45 : 15 in its simplest form**

A 1 : 3

B 3 : 1

C 9 : 3

D 45 : 15

Understand It with Pulse | Flag a mistake

17 **On a map, 1 cm represents 20 km. Two towns are 3 cm apart on the map. How far apart are they in real life, in km?**

A 60

B 80

C 3

D 120

Understand It with Pulse | Flag a mistake

18 **A wage of £240 per week increases by 18%. The new weekly wage is**

A £283.20

B £245.20

C £258

D £293.20

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19 **The exchange rate is £1 = 1.15 euros. How many euros do you get for £300?**

A 345

B 355

C 260.87

D 335

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20 The ratio of boys to girls in a class is 2 : 3. What fraction of the class are boys?

- A $\frac{3}{5}$
- B $\frac{2}{5}$
- C $\frac{1}{3}$
- D $\frac{2}{3}$

Understand It with Pulse | Flag a mistake

21 Find 35% of 200

- A 35
- B 130
- C 70
- D 80

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22 **Write the ratio 8 : 24 in its simplest form**

A 8 : 24

B 1 : 3

C 2 : 6

D 3 : 1

Understand It with Pulse | Flag a mistake

23 **On a map, 1 cm represents 20 km. Two towns are 8 cm apart on the map. How far apart are they in real life, in km?**

A 8

B 320

C 180

D 160

Understand It with Pulse | Flag a mistake

24 **A wage of £80 per week increases by 18%. The new weekly wage is**

- A £94.40
- B £85.40
- C £104.40
- D £98

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25 **Two numbers are in the ratio 4 : 5 and their sum is 54. The smaller number is**

- A 6
- B 30
- C 24
- D 25

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. A
3. B
4. C
5. D
6. C
7. B
8. D
9. D
10. A
11. A
12. D
13. C
14. A
15. D
16. B
17. A
18. A
19. A
20. B
21. C
22. B
23. D
24. A
25. C

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