ENGLAND GCSE MATHS OCR HIGHER · 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 3 : 5. There are 6 lemons. How many oranges are there?**

- A 6
- B 16
- C 11
- D 10

Understand It with Pulse | Flag a mistake

2 **A chocolate cake recipe for 6 people uses 200 g of flour. How much flour is needed for 12 people?**

- A 200
- B 500
- C 450
- D 400

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3 **There are 100 silver coins. 35% of them are old. How many old silver coins are there?**

- A 70
- B 35
- C 17
- D 45

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4 **Glass marbles are shared between two children in the ratio 2 : 5. There are 28 marbles altogether. The smaller share is**

- A 20
- B 8
- C 28
- D 9

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5 **Red apples cost £6 for 3 kg. How much do 5 kg of red apples cost?**

- A £12
- B £10
- C £6
- D £30

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6 **The ratio of burgers to chicken nuggets on a school lunch tray is 3 : 5. There are 6 burgers. How many chicken nuggets are there?**

- A 6
- B 11
- C 16
- D 10

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7 **Two numbers are in the ratio 3 : 5 and their sum is 40. The smaller number is**

- A 5
- B 25
- C 15
- D 20

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8 **On a map, 1 cm represents 25 km. Two towns are 4 cm apart on the map. How far apart are they in real life, in km?**

- A 4
- B 100
- C 125
- D 200

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9 **Write the ratio 24 : 16 in its simplest form**

- A 6 : 4
- B 2 : 3
- C 24 : 16
- D 3 : 2

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10 **A wage of £80 per week increases by 12%. The new weekly wage is**

- A £85.60
- B £99.60
- C £89.60
- D £92

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11 **Share £180 in the ratio 4 : 5. How much does Dana get, if Dana gets the first share?**

- A £80
- B £20
- C £100
- D £85

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12 **Find 85% of 240**

A 102

B 216

C 36

D 204

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13 **The exchange rate is £1 = 1.15 euros. How many euros do you get for £400?**

A 460

B 470

C 347.83

D 450

Understand It with Pulse | Flag a mistake

14 **Two numbers are in the ratio 5 : 2 and their sum is 49. The smaller number is**

- A 7
- B 21
- C 35
- D 14

Understand It with Pulse | Flag a mistake

15 **On a map, 1 cm represents 5 km. Two towns are 3 cm apart on the map. How far apart are they in real life, in km?**

- A 20
- B 3
- C 30
- D 15

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16 **Write the ratio 18 : 6 in its simplest form**

- **A** 1 : 3
- **B** 18 : 6
- **C** 3 : 1
- **D** 6 : 2

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

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

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18 **A wage of £240 per week increases by 25%. The new weekly wage is**

A £245

B £265

C £300

D £310

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19 **Share £60 in the ratio 2 : 3. How much does Beth get, if Beth gets the first share?**

A £12

B £24

C £36

D £29

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20 **Find 45% of 300**

- A 165
- B 135
- C 150
- D 67

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

- A 355
- B 335
- C 260.87
- D 345

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22 **Two numbers are in the ratio 2 : 3 and their sum is 35. The smaller number is**

- A 7
- B 14
- C 15
- D 21

Understand It with Pulse | Flag a mistake

23 **On a map, 1 cm represents 10 km. Two towns are 4 cm apart on the map. How far apart are they in real life, in km?**

- A 40
- B 4
- C 80
- D 50

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24 **Write the ratio 12 : 48 in its simplest form**

- **A** 4 : 1
- **B** 1 : 4
- **C** 3 : 12
- **D** 12 : 48

Understand It with Pulse | Flag a mistake

25 **The ratio of boys to girls in a class is 5 : 3. What fraction of the class are boys?**

- **A** $\frac{3}{4}$
- **B** $\frac{5}{8}$
- **C** $\frac{5}{3}$
- **D** $\frac{3}{8}$

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ANSWER KEY

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

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