ENGLAND GCSE MATHS AQA 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 : 4. There are 12 lemons. How many oranges are there?**

- A 28
- B 16
- C 17
- D 12

Understand It with Pulse | Flag a mistake

2 **Glass marbles are shared between two children in the ratio 4 : 6. There are 40 marbles altogether. The smaller share is**

- A 24
- B 16
- C 40
- D 17

Understand It with Pulse | Flag a mistake

3 **A chocolate cake recipe for 4 people uses 400 g of flour. How much flour is needed for 8 people?**

- A 400
- B 850
- C 1000
- D 800

Understand It with Pulse | Flag a mistake

4 **The ratio of burgers to chicken nuggets on a school lunch tray is 2 : 5. There are 10 burgers. How many chicken nuggets are there?**

- A 35
- B 26
- C 10
- D 25

Understand It with Pulse | Flag a mistake

5 **A pack of 4 red apples costs £4 and a pack of 8 red apples costs £7. Which pack is better value?**

- A The pack of 8
- B Neither pack
- C The pack of 4
- D They are the same value

Understand It with Pulse | Flag a mistake

6 There are 400 silver coins. 60% of them are old. How many old silver coins are there?

- A 240
- B 250
- C 165
- D 120

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

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

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8 **Work out 35% of 600**

A 105

B 390

C 240

D 210

Understand It with Pulse | Flag a mistake

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

A £89.60

B £92

C £85.60

D £99.60

Understand It with Pulse | Flag a mistake

10 **The exchange rate is £1 = 1.10 euros. How many euros do you get for £400?**

- A 430
- B 450
- C 440
- D 363.64

Understand It with Pulse | Flag a mistake

11 **Two numbers are in the ratio 5 : 3 and their sum is 56. The smaller number is**

- A 28
- B 21
- C 7
- D 35

Understand It with Pulse | Flag a mistake

12 **Write the ratio 4 : 20 in its simplest form**

- A 4 : 20
- B 2 : 10
- C 5 : 1
- D 1 : 5

Understand It with Pulse | Flag a mistake

13 **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 200
- B 4
- C 100
- D 125

Understand It with Pulse | Flag a mistake

14 **The ratio of boys to girls in a class is 4 : 2. What fraction of the class are boys?**

- **A** $\frac{2}{3}$
- **B** $\frac{5}{6}$
- **C** $\frac{1}{3}$
- **D** 2

Understand It with Pulse | Flag a mistake

15 **Work out 35% of 200**

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

Understand It with Pulse | Flag a mistake

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

A £245

B £286

C £255

D £276

Understand It with Pulse | Flag a mistake

17 **The exchange rate is £1 = 1.25 euros. How many euros do you get for £400?**

A 320

B 510

C 500

D 490

Understand It with Pulse | Flag a mistake

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

A £80

B £20

C £85

D £100

Understand It with Pulse | Flag a mistake

19 **Write the ratio 40 : 30 in its simplest form**

A 8 : 6

B 3 : 4

C 4 : 3

D 40 : 30

Understand It with Pulse | Flag a mistake

20 **On a map, 1 cm represents 5 km. Two towns are 8 cm apart on the map. How far apart are they in real life, in km?**

- A 80
- B 8
- C 40
- D 45

Understand It with Pulse | Flag a mistake

21 **Work out 45% of 200**

- A 90
- B 100
- C 45
- D 110

Understand It with Pulse | Flag a mistake

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

A £293.20

B £258

C £283.20

D £245.20

Understand It with Pulse | Flag a mistake

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

A £120

B £20

C £100

D £80

Understand It with Pulse | Flag a mistake

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

A 6

B 25

C 24

D 30

Understand It with Pulse | Flag a mistake

25 **Write the ratio 48 : 60 in its simplest form**

A 5 : 4

B 12 : 15

C 4 : 5

D 48 : 60

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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