ENGLAND GCSE MATHS AQA HIGHER · UNIT 1 · 25 QUESTIONS

Number, Structure and Calculation — 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 **Each bag holds 11 red apples. How many red apples are in 6 bags?**

- A 66
- B 77
- C 55
- D 17

Understand It with Pulse | Flag a mistake

2 **Mia buys a bicycle for £140. She pays with £160. How much change does she get?**

A £19

B £25

C £20

D £21

Understand It with Pulse | Flag a mistake

3 **Each box holds 7 silver coins. How many silver coins are in 3 boxes?**

A 28

B 10

C 21

D 14

Understand It with Pulse | Flag a mistake

4 **Mia buys a calculator for £14. She pays with £19. How much change does she get?**

A £6

B £10

C £4

D £5

Understand It with Pulse | Flag a mistake

5 **Each box holds 9 hardcover books. How many hardcover books are in 5 boxes?**

A 54

B 45

C 36

D 14

Understand It with Pulse | Flag a mistake

6 **Mia buys a guitar for £50. She pays with £60. How much change does she get?**

A £10

B £15

C £9

D £11

Understand It with Pulse | Flag a mistake

7 **In 89326, the digit 2 has the value**

A 200

B 20

C 2000

D 2

Understand It with Pulse | Flag a mistake

8 **(6 + 9) × 3 is equal to**

- A 18
- B 162
- C 45
- D 33

Understand It with Pulse | Flag a mistake

9 **Each box holds 9 glass marbles. How many glass marbles are in 6 boxes?**

- A 54
- B 45
- C 15
- D 63

Understand It with Pulse | Flag a mistake

10 **10 - (-11) is equal to**

- A 20
- B 21
- C 22
- D 11

Understand It with Pulse | Flag a mistake

11 **8.4×10^3 is equal to**

- A 8400
- B 9400
- C 840
- D 84000

Understand It with Pulse | Flag a mistake

12 **The lowest common multiple of 42 and 32 is**

A 672

B 674

C 670

D 32

Understand It with Pulse | Flag a mistake

13 **Mia buys a basketball for £13. She pays with £15. How much change does she get?**

A £3

B £1

C £7

D £2

Understand It with Pulse | Flag a mistake

14 An estimate for 51.2×19.4 is

- A 1938
- B 918
- C 484
- D 969

Understand It with Pulse | Flag a mistake

15 Write $\sqrt{12} + \sqrt{3}$ in the form $a\sqrt{3}$

- A $\sqrt{15}$
- B $4\sqrt{3}$
- C $2\sqrt{3}$
- D $3\sqrt{3}$

Understand It with Pulse | Flag a mistake

16 **Write $1/\sqrt{7}$ with a rational denominator**

- A $\sqrt{7}/7$
- B $\sqrt{7}$
- C $\frac{1}{7}$
- D $\sqrt{7}/2$

Understand It with Pulse | Flag a mistake

17 **The value of 5^2 is**

- A 125
- B 20
- C 30
- D 25

Understand It with Pulse | Flag a mistake

18 **Between which two whole numbers does $\sqrt{70}$ lie?**

- A 7 and 8
- B 9 and 10
- C 8 and 10
- D 8 and 9

Understand It with Pulse | Flag a mistake

19 **Which is the largest of these numbers?**

- A 0.5
- B 0.45
- C 0.405
- D 0.6

Understand It with Pulse | Flag a mistake

20 **Write $3^6/3^5$ as a single power of 3**

- A 3^3
- B 3^{11}
- C 3^{30}
- D 3^1

Understand It with Pulse | Flag a mistake

21 **In 63854, the digit 8 has the value**

- A 800
- B 8000
- C 8
- D 80

Understand It with Pulse | Flag a mistake

22 The cube root of 27 is

- A 5
- B 6
- C 4
- D 3

Understand It with Pulse | Flag a mistake

23 7 + 8 × 7 is equal to

- A 68
- B 105
- C 22
- D 63

Understand It with Pulse | Flag a mistake

24 **-1 + 14 is equal to**

A 13

B 18

C 12

D 23

Understand It with Pulse | Flag a mistake

25 **8.4×10^4 is equal to**

A 840000

B 85000

C 84000

D 8400

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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