ENGLAND GCSE MATHS EDEXCEL FOUNDATION · FINAL EXAM · 50 QUESTIONS

Final Exam — 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 **Zara buys a tennis ball for £7. She pays with £9. How much change does she get?**

- A £1
- B £2
- C £3
- D £7

Understand It with Pulse | Flag a mistake

2 **There are 400 silver coins. 10% of them are old. How many old silver coins are there?**

- A 80
- B 20
- C 365
- D 40

Understand It with Pulse | Flag a mistake

3 **Write in its simplest form 4a + 5b + 3a - b, where a is the number of red apples and b is the number of lemons.**

- **A** 4b
- **B** 7a
- **C** 7a + 4b
- **D** 7a + 6b

Understand It with Pulse | Flag a mistake

4 **A passenger aeroplane climbs 600 m for every 4000 m it travels forwards. The gradient of its flight path is**

- **A** $\frac{3}{25}$
- **B** $\frac{3}{20}$
- **C** $\frac{7}{40}$
- **D** $\frac{20}{3}$

Understand It with Pulse | Flag a mistake

5 **A bicycle costs x pounds. After a £10 discount it costs £150. The value of x is**

- A £140
- B £170
- C £160
- D £150

Understand It with Pulse | Flag a mistake

6 **A sunflower is 15 cm tall. It grows 5 cm each week. Its height after 5 weeks is**

- A 40
- B 30
- C 35
- D 45

Understand It with Pulse | Flag a mistake

7 **Glass marbles are shared between two children in the ratio 3 : 5. There are 32 marbles altogether. The smaller share is**

- A 13
- B 32
- C 20
- D 12

Understand It with Pulse | Flag a mistake

8 **A yellow school bus travels 210 km in 2 hours. Its average speed, in km/h, is**

- A 105
- B 52.5
- C 420
- D 115

Understand It with Pulse | Flag a mistake

9 **A castle is 12 m tall. Its model is 30 cm tall. The scale factor from the model to the real castle is**

- A 40
- B 50
- C 80
- D 30

Understand It with Pulse | Flag a mistake

10 **A Ferris wheel has a diameter of 10 m. Its circumference, to one decimal place, is about**

- A 37.7 m
- B 62.8 m
- C 15.7 m
- D 31.4 m

Understand It with Pulse | Flag a mistake

11 **A ladder 15 m long leans against a wall. Its foot is 9 m from the wall. How high up the wall does it reach?**

- **A** 17
- **B** 12
- **C** 9
- **D** 14

Understand It with Pulse | Flag a mistake

12 **A fair six-sided die is thrown once. The probability of scoring a 4 is**

- **A** $\frac{1}{6}$
- **B** $\frac{1}{3}$
- **C** $\frac{1}{2}$
- **D** $\frac{1}{4}$

Understand It with Pulse | Flag a mistake

13 **The median of 2, 3, 5, 6, 8 is**

A 2

B 3

C 5

D 6

Understand It with Pulse | Flag a mistake

14 **The lowest common multiple of 30 and 48 is**

A 48

B 240

C 236

D 238

Understand It with Pulse | Flag a mistake

15 **Simple interest on £500 at 5% per year for 3 years is**

A £75

B £150

C £100

D £25

Understand It with Pulse | Flag a mistake

16 **Write in its simplest form 5a + 4b - 4a + 3b**

A a + 7b

B b + 7a

C 9a + 7b

D a + b

Understand It with Pulse | Flag a mistake

17 **The y-intercept of y = 3x + 6 is**

A -6

B 6

C 3

D 9

Understand It with Pulse | Flag a mistake

18 **Solve the inequality 4x + 8 < 32**

A $x > 6$

B $x < 6$

C $x \leq 6$

D $x < 7$

Understand It with Pulse | Flag a mistake

19 **The 10th term of the sequence with nth term 7n + 3 is**

A 80

B 73

C 67

D 66

Understand It with Pulse | Flag a mistake

20 **Calculate 85% of 400**

A 60

B 360

C 340

D 170

Understand It with Pulse | Flag a mistake

21 **y is inversely proportional to x and y = 24 when x = 2. Find y when x = 8.**

- A 96
- B 30
- C 384
- D 6

Understand It with Pulse | Flag a mistake

22 **Each exterior angle of a regular polygon with 10 sides is**

- A 36°
- B 144°
- C 32°
- D 72°

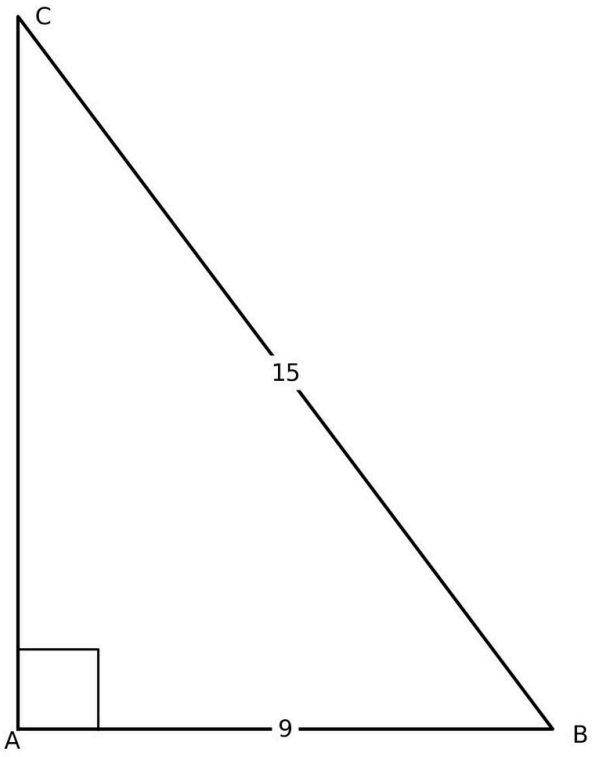
Understand It with Pulse | Flag a mistake

23 **A trapezium has parallel sides of 8 cm and 14 cm, and the distance between them is 7 cm. Its area is**

- **A** 112 cm²
- **B** 77 cm²
- **C** 84 cm²
- **D** 154 cm²

Understand It with Pulse | Flag a mistake

24 **A right-angled triangle has a hypotenuse of 15 cm and one side of length 9 cm. The other side is**



- **A** 12 cm
- **B** 13 cm
- **C** 6 cm
- **D** 11 cm

Understand It with Pulse | Flag a mistake

25 **P(A) = 0.4, P(B) = 0.4, P(A and B) = 0.1. P(A or B) is**

- A 0.16
- B 0.8
- C 0.7
- D 0.9

Understand It with Pulse | Flag a mistake

26 **The median of 5, 6, 7, 8, 9 is**

- A 6
- B 8
- C 5
- D 7

Understand It with Pulse | Flag a mistake

27 **Each crate holds 4 hardcover books. How many hardcover books are in 4 crates?**

- **A** 8
- **B** 12
- **C** 16
- **D** 20

Understand It with Pulse | Flag a mistake

28 **A chocolate cake is cut into 10 equal slices. 7 slices are eaten. What fraction of the cake has been eaten?**

- **A** $\frac{3}{10}$
- **B** $\frac{7}{10}$
- **C** $\frac{7}{12}$
- **D** $\frac{4}{5}$

Understand It with Pulse | Flag a mistake

29 **Write in its simplest form 3a + 5b + 3a - b, where a is the number of red apples and b is the number of lemons.**

A 6a

B 6a + 6b

C 6a + 4b

D 4b

Understand It with Pulse | Flag a mistake

30 **A bicycle path falls 2 m for every 4 m it goes across. The gradient of the path is**

A -1/2

B -3/4

C $\frac{1}{2}$

D -2

Understand It with Pulse | Flag a mistake

31 **A bicycle costs x pounds. After a £20 discount it costs £80. The value of x is**

- A £60
- B £110
- C £100
- D £80

Understand It with Pulse | Flag a mistake

32 **A thermometer records the temperature falling by 3 degrees each hour: 24, 21, 18, 15. The next temperature is**

- A 9
- B 18
- C 15
- D 12

Understand It with Pulse | Flag a mistake

33 **The ratio of lemons to oranges is 3 : 6. There are 6 lemons. How many oranges are there?**

- A 18
- B 13
- C 12
- D 6

Understand It with Pulse | Flag a mistake

34 **A rocket travels 3600 km in 4 hours. Its average speed is**

- A 900
- B 1000
- C 1800
- D 800

Understand It with Pulse | Flag a mistake

35 **A ladder leans against a wall, making an angle of 60 degrees with the ground. The angle between the ladder and the wall is**

- A 40
- B 60
- C 30
- D 120

Understand It with Pulse | Flag a mistake

36 **A roundabout has a radius of 7 m. Its area, to one decimal place, is about**

- A 44 m²
- B 307.9 m²
- C 22 m²
- D 153.9 m²

Understand It with Pulse | Flag a mistake

37 **A passenger aeroplane takes off at an angle of 30° and flies 100 m. Its height is**

- **A** 60
- **B** 40
- **C** 100
- **D** 50

Understand It with Pulse | Flag a mistake

38 **A box holds 24 eggs. 6 eggs are cracked. The probability of picking a cracked egg at random is**

- **A** $\frac{1}{4}$
- **B** $\frac{7}{24}$
- **C** $\frac{3}{14}$
- **D** $\frac{3}{4}$

Understand It with Pulse | Flag a mistake

39 **The range of 2, 12, 13, 15, 20 is**

- A 20
- B 18
- C 17
- D 19

Understand It with Pulse | Flag a mistake

40 **0.7 × 0.8 is equal to**

- A 0.66
- B 0.56
- C 1.5
- D 5.6

Understand It with Pulse | Flag a mistake

41 **Calculate 25% of 160**

- A 20
- B 120
- C 45
- D 40

Understand It with Pulse | Flag a mistake

42 **Write in its simplest form** $\frac{4x}{4}$

- A $\frac{x}{2}$
- B x
- C x^2
- D $2x$

Understand It with Pulse | Flag a mistake

43 A kite string has gradient $\frac{3}{2}$. It goes 8 m across. How high is the kite?

- **A** 15
- **B** 9
- **C** 8
- **D** 12

Understand It with Pulse | Flag a mistake

44 Solve the inequality $2x + 8 < 20$

- **A** $x > 6$
- **B** $x < 7$
- **C** $x < 6$
- **D** $x \leq 6$

Understand It with Pulse | Flag a mistake

45 **Is 44 a term of the sequence with nth term 5n + 3?**

- A No, it is not a term
- B Yes, it is the 8th term
- C No, it is the first term
- D Yes, it is the 9th term

Understand It with Pulse | Flag a mistake

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

- A 10
- B 11
- C 30
- D 40

Understand It with Pulse | Flag a mistake

47 **A force of 480 N acts on an area of 4 m^2. The pressure, in $\frac{N}{m^2}$, is**

A 1920

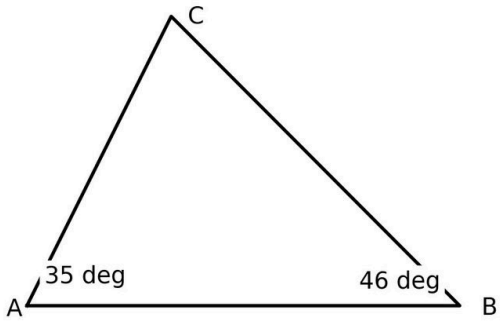
B 240

C 120

D 125

Understand It with Pulse | Flag a mistake

48 **A triangle has two angles of 35° and 46°. The third angle is**



- **A** 81°
- **B** 114°
- **C** 99°
- **D** 145°

Understand It with Pulse | Flag a mistake

49 **A rectangle is 15 cm long and 6 cm wide. Its perimeter is**

- A 44 cm
- B 90 cm
- C 21 cm
- D 42 cm

Understand It with Pulse | Flag a mistake

50 **A brown dog walks 6 m east and then 8 m north. How far is it from its starting point?**

- A 11
- B 14
- C 9
- D 10

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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