ENGLAND GCSE MATHS AQA 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 **Each box holds 8 eggs. How many eggs are in 6 boxes?**

- A 48
- B 14
- C 56
- D 40

Understand It with Pulse | Flag a mistake

2 **There are 400 silver coins. 5% of them are old. How many old silver coins are there?**

- A 60
- B 385
- C 10
- D 20

Understand It with Pulse | Flag a mistake

3 **Simplify 2a + 4b + 2a - b, where a is the number of red apples and b is the number of lemons.**

- A 4a
- B 4a + 5b
- C 4a + 3b
- D 3b

Understand It with Pulse | Flag a mistake

4 **A kite string has gradient $\frac{3}{4}$. It goes 12 m across. How high is the kite?**

- A 6
- B 12
- C 15
- D 9

Understand It with Pulse | Flag a mistake

5 **A tennis ball costs x pounds. A tube of 4 tennis balls costs £20. The value of x is**

- A £4
- B £6
- C £20
- D £5

Understand It with Pulse | Flag a mistake

6 **A honeybee visits flowers: 7, 11, 15, 19. The next number is**

- A 31
- B 19
- C 23
- D 27

Understand It with Pulse | Flag a mistake

7 **Glass marbles are shared between two children in the ratio 2 : 5. There are 35 marbles altogether. The smaller share is**

A 11

B 25

C 10

D 35

Understand It with Pulse | Flag a mistake

8 **A yellow school bus travels 240 km in 1.5 hours. Its average speed, in km/h, is**

A 360

B 80

C 160

D 170

Understand It with Pulse | Flag a mistake

9 **A set square is a right-angled triangle with angles 90 degrees, 30 degrees and one more. The third angle is**

- A 30
- B 60
- C 120
- D 70

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

11 **A ladder 13 m long leans against a wall. Its foot is 5 m from the wall. How high up the wall does it reach?**

- A 15
- B 12
- C 14
- D 5

Understand It with Pulse | Flag a mistake

12 **P(A) = 0.5, P(B) = 0.2, P(A and B) = 0.15. P(A or B) is**

- A 0.1
- B 0.7
- C 0.55
- D 0.65

Understand It with Pulse | Flag a mistake

13 **A scatter graph shows the height and weight of students. The line of best fit is used to**

- A count the students
- B predict a weight from a height
- C find the mean height
- D find the range of the weights of the students

Understand It with Pulse | Flag a mistake

14 **In 12047, the digit 7 has the value**

- A 7
- B 70000
- C 700
- D 70

Understand It with Pulse | Flag a mistake

15 $1 \times \frac{1}{2}$ is equal to

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

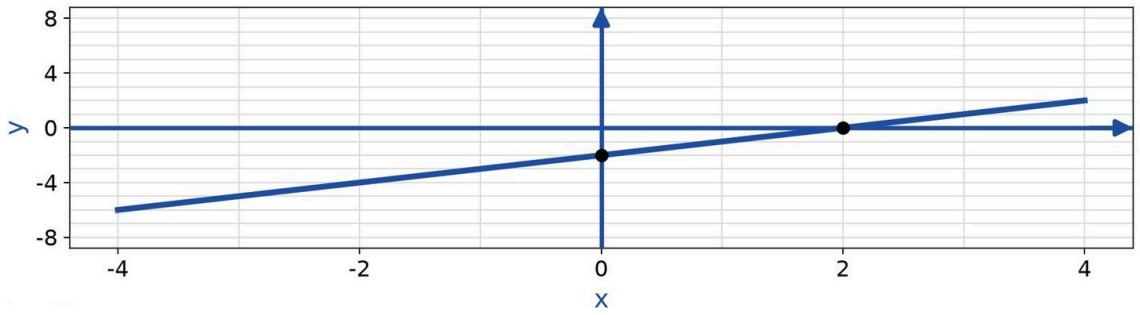
Understand It with Pulse | Flag a mistake

16 Expand $5x(2x - 2)$

- **A** $10x^2 - 2x$
- **B** $10x^2 + 10x$
- **C** $10x^2 - 10x$
- **D** $7x^2 - 10x$

Understand It with Pulse | Flag a mistake

17 **The graph below shows a straight line through (0, -2). The gradient of the line is**



A 1

B -1

C 2

D -2

Understand It with Pulse | Flag a mistake

18 **Which inequality is shown by the integers x that satisfy x > 3 and x ≤ 7?**

- **A** $3 < x \leq 7$
- **B** $x > 3$
- **C** $3 < x < 7$
- **D** $3 \leq x < 7$

Understand It with Pulse | Flag a mistake

19 **The 20th term of the sequence with nth term 4n + 5 is**

- **A** 75
- **B** 81
- **C** 85
- **D** 89

Understand It with Pulse | Flag a mistake

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

- A 5 : 4
- B 4 : 5
- C 48 : 60
- D 12 : 15

Understand It with Pulse | Flag a mistake

21 **A block has mass 600 g and volume 60 cm³. Its density, in g/cm³, is**

- A 10
- B 12
- C 300
- D 36000

Understand It with Pulse | Flag a mistake

22 **Two triangles are congruent if they match by**

A side, angle, side

B angle, angle, angle

C side, side, angle

D side, side, side, side

Understand It with Pulse | Flag a mistake

23 **A rectangle is 8 cm long and 9 cm wide. Its perimeter is**

A 17 cm

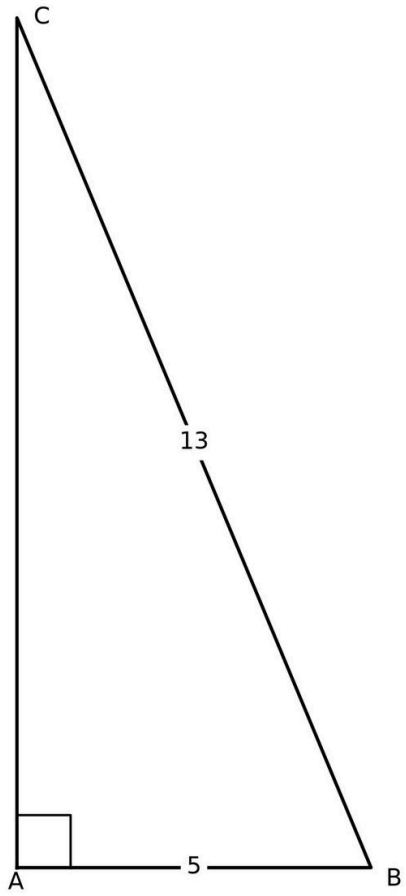
B 34 cm

C 72 cm

D 36 cm

Understand It with Pulse | Flag a mistake

24 **A right-angled triangle has a hypotenuse of 13 cm and one side of length 5 cm. The other side is**



- **A** 13 cm
- **B** 11 cm
- **C** 8 cm
- **D** 12 cm

Understand It with Pulse | Flag a mistake

25 **P(A) = 0.3, P(B) = 0.3, P(A and B) = 0.2. P(A or B) is**

A 0.5

B 0.09

C 0.6

D 0.4

Understand It with Pulse | Flag a mistake

26 **The range of 4, 6, 7, 10, 14 is**

A 10

B 11

C 14

D 9

Understand It with Pulse | Flag a mistake

27 **Each box holds 7 lemons. How many lemons are in 4 boxes?**

- A 21
- B 35
- C 28
- D 11

Understand It with Pulse | Flag a mistake

28 **Write 0.35 as a fraction in its simplest form**

- A $\frac{7}{20}$
- B $\frac{3}{5}$
- C $\frac{2}{5}$
- D $\frac{3}{10}$

Understand It with Pulse | Flag a mistake

29 The height of a rocket, in metres, after t seconds is $h = 20t - 5t^2$. When $t = 1$, the height is

- **A** 15
- **B** 25
- **C** 20
- **D** 10

Understand It with Pulse | Flag a mistake

30 A kite string has gradient $\frac{5}{4}$. It goes 8 m across. How high is the kite?

- **A** 5
- **B** 10
- **C** 15
- **D** 8

Understand It with Pulse | Flag a mistake

31 **A cup of coffee costs x pounds. 3 cups of coffee cost £6. The value of x is**

- A £1
- B £3
- C £2
- D £6

Understand It with Pulse | Flag a mistake

32 **A thermometer records the temperature falling by 3 degrees each hour: 20, 17, 14, 11. The next temperature is**

- A 11
- B 5
- C 8
- D 14

Understand It with Pulse | Flag a mistake

33 **The ratio of lemons to oranges is 3 : 4. There are 6 lemons. How many oranges are there?**

- A 14
- B 8
- C 9
- D 6

Understand It with Pulse | Flag a mistake

34 **A bicycle travels 60 km in 4 hours. Its average speed is**

- A 15
- B 10
- C 20
- D 30

Understand It with Pulse | Flag a mistake

35 **A kite has angles 90, 90, 80 and one more. The fourth angle is**

- A 80
- B 280
- C 100
- D 110

Understand It with Pulse | Flag a mistake

36 **A cup of coffee fills a cylindrical cup with radius 5 cm and height 8 cm. The volume of the coffee is, to one decimal place, about**

- A 78.5 cm^3
- B 628.3 cm^3
- C 1256.6 cm^3
- D 125.7 cm^3

Understand It with Pulse | Flag a mistake

37 A kite string is 20 m long and makes an angle of 30° with the ground. The height of the kite is

- A 11
- B 9
- C 10
- D 20

Understand It with Pulse | Flag a mistake

38 P(A) = 0.5, P(B) = 0.2, P(A and B) = 0.2. P(A or B) is

- A 0.6
- B 0.7
- C 0.1
- D 0.5

Understand It with Pulse | Flag a mistake

39 **The mean of 4, 7, 10, 13, 16 is**

- A 11
- B 13
- C 10
- D 7

Understand It with Pulse | Flag a mistake

40 **Mia buys a tennis ball for £4. She pays with £14. How much change does she get?**

- A £10
- B £9
- C £15
- D £11

Understand It with Pulse | Flag a mistake

41 **Simple interest on £2000 at 5% per year for 4 years is**

A £800

B £500

C £100

D £400

Understand It with Pulse | Flag a mistake

42 **If x = 4, the value of $3x^2 - 4$ is**

A 44

B 52

C 8

D 68

Understand It with Pulse | Flag a mistake

43 The y-intercept of y = -3x + 2 is

- A -3
- B -1
- C -2
- D 2

Understand It with Pulse | Flag a mistake

44 Solve the simultaneous equations x + y = 10, x - y = 4

- A x = 7, y = 4
- B x = 7, y = 3
- C x = 3, y = 7
- D x = 8, y = 3

Understand It with Pulse | Flag a mistake

45 **Is 34 a term of the sequence with nth term 4n + 2?**

A No, it is not a term

B Yes, it is the 7th term

C Yes, it is the 9th term

D Yes, it is the 8th term

Understand It with Pulse | Flag a mistake

46 **On a map, 1 cm represents 5 km. Two towns are 6 cm apart on the map. How far apart are they in real life, in km?**

A 60

B 30

C 35

D 6

Understand It with Pulse | Flag a mistake

47 **A passenger aeroplane travels 1600 km in 2 hours. Its average speed is**

A 700

B 800

C 900

D 1600

Understand It with Pulse | Flag a mistake

48 **The sum of the interior angles of a polygon with 8 sides is**

A 1440°

B 1080°

C 900°

D 1260°

Understand It with Pulse | Flag a mistake

49 **A prism has a cross-section of area 20 cm² and length 10 cm. Its volume is**

- **A** 30 cm³
- **B** 100 cm³
- **C** 220 cm³
- **D** 200 cm³

Understand It with Pulse | Flag a mistake

50 **In a right-angled triangle, the hypotenuse is 10 cm and one angle is 60°. The side next to the 60° angle is**

- **A** 10 cm
- **B** 5 cm
- **C** 6 cm
- **D** 4 cm

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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