ENGLAND GCSE MATHS AQA FOUNDATION · UNIT 10 · 25 QUESTIONS

Geometry, Measurement, Area, Volume and Circles — 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 so it can be fixed.

1 **A swimming pool is 25 m long, 12 m wide and 2 m deep. Its volume is**

- A 624 m^3
- B 600 m^3
- C 300 m^3
- D 700 m^3

Understand It with Pulse | Flag a mistake

2 **A Ferris wheel has a diameter of 28 m. Its circumference, to one decimal place, is about**

- **A** 88 m
- **B** 44 m
- **C** 175.9 m
- **D** 94.2 m

Understand It with Pulse | Flag a mistake

3 **A cup of coffee fills a cylindrical cup with radius 4 cm and height 8 cm. The volume of the coffee is, to one decimal place, about**

- **A** 402.1 cm^3
- **B** 100.5 cm^3
- **C** 804.2 cm^3
- **D** 50.3 cm^3

Understand It with Pulse | Flag a mistake

4 **A cardboard box is 6 cm long, 6 cm wide and 4 cm high. Its volume is**

- A 150 cm^3
- B 144 cm^3
- C 40 cm^3
- D 36 cm^3

Understand It with Pulse | Flag a mistake

5 **A chocolate cake is a cylinder with radius 10 cm and height 6 cm. Its volume, to one decimal place, is about**

- A 188.5 cm^3
- B 3769.9 cm^3
- C 1885 cm^3
- D 314.2 cm^3

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6 **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

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7 **A trapezium has parallel sides of 5 cm and 7 cm, and the distance between them is 4 cm. Its area is**

- **A** 28 cm²
- **B** 48 cm²
- **C** 24 cm²
- **D** 35 cm²

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8 **A rectangle is 11 cm long and 5 cm wide. Its perimeter is**

- A 55 cm
- B 34 cm
- C 16 cm
- D 32 cm

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9 **A cuboid is 5 cm by 5 cm by 2 cm. Its total surface area is**

- A 50 cm^2
- B 90 cm^2
- C 45 cm^2
- D 92 cm^2

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10 **A prism has a cross-section of area 24 cm² and length 6 cm. Its volume is**

- **A** 30 cm³
- **B** 72 cm³
- **C** 168 cm³
- **D** 144 cm³

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11 **A circle has radius 10 cm. Its area, to one decimal place, is about**

- **A** 31.4 cm²
- **B** 628.3 cm²
- **C** 62.8 cm²
- **D** 314.2 cm²

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12 **A cylinder has radius 5 cm and height 12 cm. Its volume, to one decimal place, is about**

- A 188.5 cm^3
- B 942.5 cm^3
- C 78.5 cm^3
- D 377 cm^3

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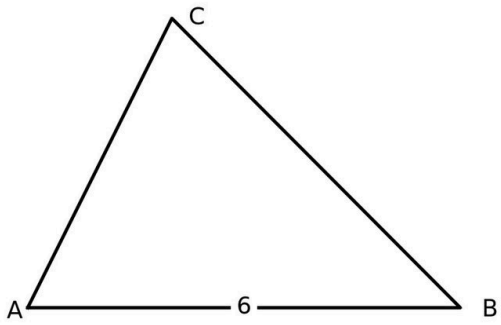
13 **A circle has radius 8 cm. Its circumference, to one decimal place, is about**

- A 25.1 cm
- B 56.5 cm
- C 201.1 cm
- D 50.3 cm

Understand It with Pulse | Flag a mistake

14 **A triangle has base 6 cm and height 4 cm. Its area is**



- **A** 18 cm²
- **B** 12 cm²
- **C** 10 cm²
- **D** 24 cm²

Understand It with Pulse | Flag a mistake

15 **A trapezium has parallel sides of 9 cm and 11 cm, and the distance between them is 5 cm. Its area is**

- **A** 55 cm²
- **B** 50 cm²
- **C** 100 cm²
- **D** 99 cm²

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16 **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

17 **A cuboid is 7 cm by 3 cm by 5 cm. Its total surface area is**

- A 71 cm²
- B 42 cm²
- C 105 cm²
- D 142 cm²

Understand It with Pulse | Flag a mistake

18 **A circle has radius 7 cm. Its area, to one decimal place, is about**

- A 22 cm²
- B 153.9 cm²
- C 307.9 cm²
- D 44 cm²

Understand It with Pulse | Flag a mistake

19 **A cylinder has radius 5 cm and height 6 cm. Its volume, to one decimal place, is about**

- A 471.2 cm³
- B 78.5 cm³
- C 188.5 cm³
- D 94.2 cm³

Understand It with Pulse | Flag a mistake

20 **A circle has radius 3 cm. Its circumference, to one decimal place, is about**

- A 18.8 cm
- B 28.3 cm
- C 25.1 cm
- D 9.4 cm

Understand It with Pulse | Flag a mistake

21 **A trapezium has parallel sides of 6 cm and 10 cm, and the distance between them is 7 cm. Its area is**

- **A** 63 cm²
- **B** 56 cm²
- **C** 112 cm²
- **D** 60 cm²

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22 **A rectangle is 9 cm long and 4 cm wide. Its perimeter is**

- **A** 36 cm
- **B** 26 cm
- **C** 13 cm
- **D** 28 cm

Understand It with Pulse | Flag a mistake

23 **A cuboid is 3 cm by 5 cm by 3 cm. Its total surface area is**

- A 30 cm²
- B 78 cm²
- C 39 cm²
- D 45 cm²

Understand It with Pulse | Flag a mistake

24 **A prism has a cross-section of area 20 cm² and length 6 cm. Its volume is**

- A 26 cm³
- B 120 cm³
- C 60 cm³
- D 140 cm³

Understand It with Pulse | Flag a mistake

25 **A cylinder has radius 4 cm and height 8 cm. Its volume, to one decimal place, is about**

A 50.3 cm^3

B 402.1 cm^3

C 201.1 cm^3

D 100.5 cm^3

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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