ENGLAND GCSE MATHS AQA FOUNDATION · UNIT 10 · 10 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 Ferris wheel has a diameter of 20 m. Its circumference, to one decimal place, is about**

A 62.8 m

B 31.4 m

C 125.7 m

D 69.1 m

Understand It with Pulse | Flag a mistake

2 **A chocolate cake is a cylinder with radius 10 cm and height 8 cm. Its volume, to one decimal place, is about**

- A 314.2 cm^3
- B 5026.5 cm^3
- C 2513.3 cm^3
- D 251.3 cm^3

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

- A 50 cm^2
- B 45 cm^2
- C 20 cm^2
- D 90 cm^2

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4 **A swimming pool is 30 m long, 12 m wide and 2 m deep. Its volume is**

- **A** 360 m^3
- **B** 744 m^3
- **C** 720 m^3
- **D** 820 m^3

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5 **A cup of coffee fills a cylindrical cup with radius 3 cm and height 12 cm. The volume of the coffee is, to one decimal place, about**

- **A** 113.1 cm^3
- **B** 339.3 cm^3
- **C** 678.6 cm^3
- **D** 28.3 cm^3

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6 **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

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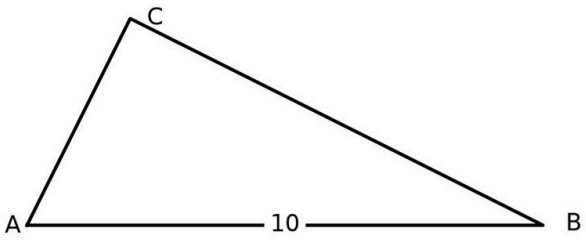
7 **A triangle has base 10 cm and height 4 cm. Its area is**



- **A** 14 cm²
- **B** 20 cm²
- **C** 30 cm²
- **D** 40 cm²

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8 **A trapezium has parallel sides of 7 cm and 10 cm, and the distance between them is 5 cm. Its area is**

- **A** 85 cm²
- **B** 47 cm²
- **C** 70 cm²
- **D** 42 cm²

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9 **A cardboard box is 3 cm long, 3 cm wide and 5 cm high. Its volume is**

- **A** 48 cm³
- **B** 14 cm³
- **C** 9 cm³
- **D** 45 cm³

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10 **A rectangle is 7 cm long and 10 cm wide. Its perimeter is**

- A 36 cm
- B 34 cm
- C 70 cm
- D 17 cm

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ANSWER KEY

1.	A	**5.**	B	**9.**	D
2.	C	**6.**	D	**10.**	B
3.	D	**7.**	B		
4.	C	**8.**	D		

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