ENGLAND GCSE MATHS OCR 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 to let Brett know so he can fix it.

1 **A cardboard box is 6 cm long, 2 cm wide and 4 cm high. Its volume is**

- **A** 12 cm³
- **B** 54 cm³
- **C** 16 cm³
- **D** 48 cm³

Understand It with Pulse | Flag a mistake

2 **A cup of coffee fills a cylindrical cup with radius 4 cm and height 9 cm. The volume of the coffee is, to one decimal place, about**

- **A** 113.1 cm^3
- **B** 50.3 cm^3
- **C** 452.4 cm^3
- **D** 904.8 cm^3

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3 **A rectangle is 14 cm long and 9 cm wide. Its perimeter is**

- **A** 46 cm
- **B** 126 cm
- **C** 48 cm
- **D** 23 cm

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

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

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

- **A** 2513.3 cm³
- **B** 314.2 cm³
- **C** 5026.5 cm³
- **D** 251.3 cm³

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

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

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7 **A trapezium has parallel sides of 6 cm and 8 cm, and the distance between them is 3 cm. Its area is**

- **A** 24 cm²
- **B** 21 cm²
- **C** 48 cm²
- **D** 42 cm²

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

- A 64 cm²
- B 30 cm²
- C 31 cm²
- D 62 cm²

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9 **A prism has a cross-section of area 15 cm² and length 6 cm. Its volume is**

- A 45 cm³
- B 90 cm³
- C 105 cm³
- D 21 cm³

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10 **A swimming pool is 20 m long, 8 m wide and 3 m deep. Its volume is**

- A 580 m^3
- B 160 m^3
- C 504 m^3
- D 480 m^3

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ANSWER KEY

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

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