ENGLAND GCSE MATHS OCR HIGHER · 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 slice of a cheese pizza is a sector of a circle with radius 8 cm and angle 120°. Its area, to one decimal place, is about**

- **A** 67 cm²
- **B** 134 cm²
- **C** 201.1 cm²
- **D** 33.5 cm²

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

- **A** 153.9 m^2
- **B** 22 m^2
- **C** 44 m^2
- **D** 307.9 m^2

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3 **A cardboard box is 7 cm long, 4 cm wide and 4 cm high. Its volume is**

- **A** 32 cm^3
- **B** 119 cm^3
- **C** 28 cm^3
- **D** 112 cm^3

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4 **The radius of a circle is 8 cm. Its circumference, to one decimal place, is about**

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

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5 **A cup of coffee fills a cylindrical cup with radius 3 cm and height 9 cm. The volume of the coffee is, to one decimal place, about**

- **A** 28.3 cm^3
- **B** 84.8 cm^3
- **C** 254.5 cm^3
- **D** 508.9 cm^3

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6 **A rectangle is 12 cm long and 9 cm wide. Its perimeter is**

- A 44 cm
- B 42 cm
- C 21 cm
- D 108 cm

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7 **The radius of a circle is 6 cm. Its area, to one decimal place, is about**

- A 37.7 cm²
- B 226.2 cm²
- C 113.1 cm²
- D 18.8 cm²

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8 **Two solids are similar. The smaller has volume 40 cm³ and the linear scale factor is 3. The volume of the larger solid is**

- **A** 120 cm³
- **B** 360 cm³
- **C** 3240 cm³
- **D** 1080 cm³

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9 **The radius of a circle is 10 cm. A sector with central angle 60° has area, to one decimal place, about**

- **A** 104.8 cm²
- **B** 314.2 cm²
- **C** 10.5 cm²
- **D** 52.4 cm²

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10 **An ice cream cone is a cone with radius 5 cm and height 8 cm. Its volume, to one decimal place, is about**

- **A** 209.4 cm^3
- **B** 41.9 cm^3
- **C** 628.3 cm^3
- **D** 418.8 cm^3

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ANSWER KEY

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

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