ENGLAND GCSE MATHS AQA 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 roundabout has a radius of 5 m. Its area, to one decimal place, is about**

- **A** 78.5 m²
- **B** 15.7 m²
- **C** 31.4 m²
- **D** 157.1 m²

Understand It with Pulse | Flag a mistake

2 **A Ferris wheel has a diameter of 10 m. Its circumference, to one decimal place, is about**

- **A** 15.7 m
- **B** 37.7 m
- **C** 62.8 m
- **D** 31.4 m

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3 **A slice of a cheese pizza is a sector of a circle with radius 10 cm and angle 60°. Its area, to one decimal place, is about**

- **A** 104.8 cm²
- **B** 52.4 cm²
- **C** 26.2 cm²
- **D** 314.2 cm²

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4 **A cardboard box is 8 cm long, 2 cm wide and 6 cm high. Its volume is**

- A 22 cm³
- B 96 cm³
- C 16 cm³
- D 104 cm³

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5 **A rectangle is 11 cm long and 9 cm wide. Its perimeter is**

- A 99 cm
- B 42 cm
- C 20 cm
- D 40 cm

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6 **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 1256.6 cm^3
- B 125.7 cm^3
- C 628.3 cm^3
- D 78.5 cm^3

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7 **A trapezium has parallel sides of 7 cm and 11 cm, and the distance between them is 7 cm. Its area is**

- A 126 cm^2
- B 70 cm^2
- C 77 cm^2
- D 63 cm^2

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8 **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 314.2 cm^3
- C 1885 cm^3
- D 3769.9 cm^3

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9 **A sphere has radius 5 cm. Its volume, to one decimal place, is about**

- A 314.2 cm^3
- B 104.7 cm^3
- C 392.7 cm^3
- D 523.6 cm^3

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

- A 153.9 cm
- B 44 cm
- C 22 cm
- D 50.3 cm

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ANSWER KEY

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

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