ALBERTA MATH 10C · UNIT 7 · 10 QUESTIONS

Measurement — 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 garden hose is 90 ft long. The length of the hose, in yards, is**

- **A** 270 yd
- **B** 10 yd
- **C** 30 yd
- **D** 7.5 yd

Understand It with Pulse | Flag a mistake

2 **A sphere has a radius of 6 cm. Using the π key on your calculator, the volume of the sphere, to the nearest tenth, is ____ cm³.**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A triangular prism has a triangular base with a base of 4 cm, a height of 3 cm, and a slanted side of 5 cm. The length of the prism is 10 cm. The surface area of the prism is**

- A 120 cm^2
- B 132 cm^2
- C 156 cm^2
- D 108 cm^2

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4 **Using the conversion 1 in = 2.54 cm, a ribbon that is 45.72 cm long is equal to**

- A 18 in
- B 116.1 in
- C 45.7 in
- D 9 in

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5 **A cone has a diameter of 10 cm and a slant height of 13 cm. The right triangle shown is formed by the radius, the height, and the slant height of the cone. Using the π key on your calculator, the volume of the cone, to the nearest tenth, is**

- **A** 340.3 cm^3
- **B** 1256.6 cm^3
- **C** 314.2 cm^3
- **D** 942.5 cm^3

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6 **A rain barrel has a volume of 0.24 m^3. Given that 1 m^3 = 1000 L, the capacity of the barrel, in litres, is ____ L.**

ANSWER _____

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7 **An open-top cylindrical bucket (with no lid) has a radius of 6 cm and a height of 8 cm. Using the π key on your calculator, the surface area of the bucket, to the nearest tenth, is**

- **A** 301.6 cm²
- **B** 226.2 cm²
- **C** 527.8 cm²
- **D** 414.7 cm²

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8 **A cone has a radius of 4 cm and a slant height of 6 cm. Using 3.14 for π, the surface area of the cone, to the nearest tenth, is ____ cm².**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A floor tile has an area of 2 ft².The area of the tile, in in², is**

- A 288 in²
- B 24 in²
- C 144 in²
- D 1728 in²

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10 **A bowl is in the shape of a hemisphere with a radius of 9 cm. Using the π key on your calculator, the volume of the bowl, to the nearest tenth, is**

- A 763.4 cm³
- B 3053.6 cm³
- C 1017.9 cm³
- D 1526.8 cm³

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	C	**9.**	A
2.	904.8	**6.**	240	**10.**	D
3.	B	**7.**	D		
4.	A	**8.**	125.6		

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