ALBERTA MATH 20-3 · UNIT 1 · 10 QUESTIONS

Surface Area, Volume and Capacity — 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 basketball is a sphere with diameter 12 cm. Its volume, to the nearest tenth of a cm³, is**

- **A** 452.4 cm³
- **B** 904.8 cm³
- **C** 7238.2 cm³
- **D** 113.1 cm³

Understand It with Pulse | Flag a mistake

2 **A paper drink cone has radius 4 cm and height 12 cm. Its volume, to the nearest tenth of a cm³, is**

- **A** 603.2 cm³
- **B** 804.2 cm³
- **C** 201.1 cm³
- **D** 50.3 cm³

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3 **One wall of a shop is 6 m long and 2.5 m high. One litre of paint covers 5 m². Litres of paint needed for one coat are**

- **A** 3.0 L
- **B** 75 L
- **C** 15 L
- **D** 6.0 L

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4 **The triangular face of a concrete loading ramp is shown. Its base is 2 m, its height is 0.5 m, and the ramp is 3 m wide. Its volume is**

- **A** 3.0 m³
- **B** 0.5 m³
- **C** 15 m³
- **D** 1.5 m³

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5 **A farm tank holds 10 imperial gallons of fuel. Use 1 imperial gallon = 4.546 L. This amount, in litres, is**

- **A** 37.85 L
- **B** 45.46 L
- **C** 4.546 L
- **D** 454.6 L

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6 **A backyard pool is 8 m long, 4 m wide and 1.5 m deep. The volume of water it holds when full, in litres, is**

- A 48 L
- B 4800 L
- C 48000 L
- D 16000 L

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7 **A pyramid shaped tent with no floor has a square base with side length 2 m and a slant height of 1.8 m. The area of canvas in its four faces is**

- A 7.2 m^2
- B 11.2 m^2
- C 3.6 m^2
- D 14.4 m^2

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8 **A paper label wraps exactly once around the curved side of a soup can with radius 5 cm and height 12 cm. The area of the label, to the nearest tenth of a cm², is**

- A 534.1 cm²
- B 942.5 cm²
- C 377.0 cm²
- D 188.5 cm²

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9 **A worker fills bottles from a 9 L jug. Each bottle holds 750 mL. How many bottles can be filled completely?**

- A 6
- B 90
- C 120
- D 12

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10 **A small barn is a box 10 m long, 8 m wide and 3 m high, with a roof shaped as a triangular prism whose triangular ends have base 8 m and height 2 m. The total volume of the barn is**

- **A** 240 m^3
- **B** 320 m^3
- **C** 80 m^3
- **D** 400 m^3

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ANSWER KEY

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

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