ALBERTA MATH 20-3 · UNIT 1 · 5 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 **The graph shows the volume of water in an aquarium as it fills. How many litres of water are in the aquarium after 3 hours?**

- **A** 375 L
- **B** 37.5 L
- **C** 3.75 L
- **D** 37500 L

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2 **Two open paint cans sit side by side on a plain white surface, one filled with bright red paint and one with bright blue paint. An open top cylindrical bucket has radius 4 cm and height 10 cm. Its surface area, counting the bottom and the side only, to the nearest tenth, is**



A 351.9 cm²

B 251.3 cm²

C 502.7 cm²

D 301.6 cm²

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3 **A rectangular pyramid display has a base of 8 cm by 6 cm and a vertical height of 9 cm. Its volume is**

- A 144 cm^3
- B 432 cm^3
- C 48 cm^3
- D 216 cm^3

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4 **A nurse measures out 2 pints of fluid. Use 1 pint = 16 fluid ounces. This amount, in fluid ounces, is**

- A 16 fl oz
- B 64 fl oz
- C 32 fl oz
- D 4 fl oz

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5 **A planter box is 120 cm long, 40 cm wide and 30 cm deep. Soil is sold in 20 L bags. How many full bags must be bought to fill it?**

- **A** 7 bags
- **B** 72 bags
- **C** 144 bags
- **D** 8 bags

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ANSWER KEY

1. B
2. D
3. A
4. C
5. D

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