ALBERTA MATH 10-3 · UNIT 2 · 10 QUESTIONS

Perimeter, Area, Surface Area and Volume — 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 rectangular garden plot is 12 ft long and 8 ft wide. Fencing costs $9 per foot. The cost to fence all four sides of the plot is**

- A $864
- B $360
- C $180
- D $288

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2 **A parallelogram shaped driveway section has a base of 14 m and a height of 6 m. The area of the section is**

- **A** 42 m^2
- **B** 20 m^2
- **C** 168 m^2
- **D** 84 m^2

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3 **A cone has a radius of 3 cm and a height of 4 cm. Using the π key on your calculator, the volume of the cone, to the nearest tenth, is**

- **A** 37.7 cm^3
- **B** 113.1 cm^3
- **C** 75.4 cm^3
- **D** 18.8 cm^3

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4 **An open box (with no top) has a length of 8 cm, a width of 5 cm, and a height of 3 cm. The surface area of the box is**

- **A** 158 cm^2
- **B** 118 cm^2
- **C** 120 cm^2
- **D** 88 cm^2

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5 **A rectangular sheet is 12 cm long and 8 cm wide. A square with side length 4 cm is cut out of the sheet. The area of the sheet that remains is**

- **A** 96 cm^2
- **B** 112 cm^2
- **C** 80 cm^2
- **D** 64 cm^2

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6 **A sphere has a diameter of 12 cm. Using the π key on your calculator, the volume of the sphere, to the nearest whole number, is**

- A 7238 cm^3
- B 452 cm^3
- C 226 cm^3
- D 905 cm^3

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7 **A trapezoid has parallel sides of 8 cm and 14 cm, and a height of 6 cm. The area of the trapezoid is**

- A 66 cm^2
- B 132 cm^2
- C 84 cm^2
- D 48 cm^2

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8 **An open-top cylinder (with no lid) has a radius of 5 cm and a height of 8 cm. Using the π key on your calculator, the surface area of the cylinder, to the nearest tenth, is**

- **A** 408.4 cm²
- **B** 329.9 cm²
- **C** 628.3 cm²
- **D** 251.3 cm²

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9 **A concrete slab is 6 m long, 4 m wide, and 0.25 m thick. Concrete costs $150 per m³. The cost of the concrete for the slab is**

- **A** $3600
- **B** $1800
- **C** $900
- **D** $450

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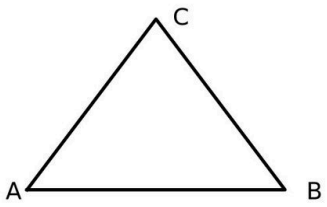
10 **The diagram shows the triangular base ABC of a prism. The base AB of the prism is 6 cm and the height of the triangular base is 4 cm. The prism is 10 cm long. The volume of the prism, in cm³, is**



A 240 cm³

B 60 cm³

C 120 cm³

D 160 cm³

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ANSWER KEY

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

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