NUNAVUT MATH 10-3 · NUNAVUT

Nunavut Math 10-3

Practice Test

Unit 2: Perimeter, Area, Surface Area and Volume

10 Questions

Original practice test based on the Nunavut curriculum. Work through each question, then check your answers at the end.

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.

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Question 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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Question 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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Question 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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Question 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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Question 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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Question 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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Question 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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Question 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 cm^2

B) 329.9 cm^2

C) 628.3 cm^2

D) 251.3 cm^2

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Question 9

A concrete slab is 6 m long, 4 m wide , and 0.25 m thick. Concrete costs \$150 per m^3. The cost of the concrete for the slab is

A) \$3600

B) \$1800

C) \$900

D) \$450

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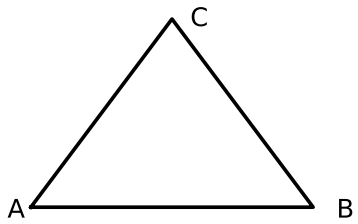

Question 10

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 cm^3, is

A) 240 cm^3

B) 60 cm^3

C) 120 cm^3

D) 160 cm^3

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ANSWER KEY

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

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