NEW BRUNSWICK GEOMETRY, MEASUREMENT AND FINANCE 10 · UNIT D · 10 QUESTIONS

Surface Area and Volume, 10-question test — 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 triangular prism has base area 20 and length 3. Its volume is**

1 **A triangular prism has base area 20 and length 3. Its volume is**

Question 1

A rectangular prism has length 4 width 4 and height 4. Its volume is

ANSWER

Understand It with Pulse | Flag a mistake

2 The volume of a cylinder is

2 The volume of a cylinder is

Question 2

A cube has side 10. Its surface area is

A pi r squared times height

B 2 pi r

C pi r times height only

D r squared only

A pi r squared times height

B 2 pi r

C pi r times height only

D r squared only

Understand It with Pulse | Flag a mistake

3 **A cone has the same base and height as a cylinder. Its volume is**

3 **A cone has the same base and height as a cylinder. Its volume is**

Question 3

A rectangular prism has length 6 width 6 and height 2. Its surface area is

A equal to the cylinder
B one third of the cylinder
C three × the cylinder
D half the cylinder

A equal to the cylinder

B one third of the cylinder

C three × the cylinder

D half the cylinder

Understand It with Pulse

Flag a mistake

4 A rectangular prism has length 12 width 2 and height 3. Its volume is

4 A rectangular prism has length 12 width 2 and height 3. Its volume is

Question 4

Surface area measures the total area of the

A) inside air only

B) outside faces

C) longest edge

D) base only

ANSWER

Understand It with Pulse | Flag a mistake

5 A cube has side 8. Its surface area is

5 A cube has side 8. Its surface area is

Question 5

The surface area of a cube with side s is

A) s^3

B) $6\,s^2$

C) $4\,s$

D) $2\,s^2$

ANSWER

Understand It with Pulse | Flag a mistake

6

A rectangular prism has length 6 width 6 and height 2. Its surface area is

6 A rectangular prism has length 6 width 6 and height 2. Its surface area is

Question 6

The volume of a cylinder is

A) $\pi r^2 \times$ height

B) $2 \pi r$

C) $\pi r \times$ height only

D) r^2 only

ANSWER

Understand It with Pulse

Flag a mistake

7

A sphere has radius 2. Using pi as 3.14 and 4 thirds pi r cubed its volume to two decimal places is

7

A sphere has radius 2. Using pi as 3.14 and 4 thirds pi r cubed its volume to two decimal places is

Question 7

The volume of a rectangular prism is found by

A) length times width times height

B) length plus width plus height

C) 2 times length plus width

D) length times width only

ANSWER

Understand It with Pulse

Flag a mistake

8

Capacity in litres is most closely related to

8

Capacity in litres is most closely related to

Question 8

Volume is measured in

A) square units

B) linear units

C) cubic units

D) degrees

A perimeter

B surface area only

C volume

D angle measure

A perimeter

B surface area only

C volume

D angle measure

Understand It with Pulse

Flag a mistake

9 A box has length 10 width 3 and height 3. Its volume is

9 A box has length 10 width 3 and height 3. Its volume is

Question 9

A rectangular prism has length 6 width 4 and height 5. Its volume is

ANSWER

Understand It with Pulse | Flag a mistake

10 A cube has side 10. Its surface area is

10 A cube has side 10. Its surface area is

Question 10

A rectangular prism has length 12 width 2 and height 3. Its volume is

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 60
2. A
3. B
4. 72
5. 384
6. 120
7. 33.49
8. C
9. 90
10. 600

© 2026 Brett Robbins. All Rights Reserved.