NEW BRUNSWICK GEOMETRY, MEASUREMENT AND FINANCE 10 · UNIT D · 25 QUESTIONS

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 cube has side 4. Its surface area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A cube has side 4. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A cylinder has radius 3 and height 5. Using pi as 3.14 its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A rectangular prism has length 5 width 4 and height 3. Its surface area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A rectangular prism has length 5 width 4 and height 3. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A triangular prism has base area 12 and length 5. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

- **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

9 **A net of a 3D object shows its faces laid out**

- **A** stacked
- **B** flat
- **C** invisible
- **D** in colour only

Understand It with Pulse | Flag a mistake

10 **A rectangular box has length 9 width 4 and height 2. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A sphere has radius 3 . Using pi as 3.14 and $(\frac{4}{3})$ pi r^3 its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A sphere has radius 2 . Using pi as 3.14 and $(\frac{4}{3})$ pi r^3 its volume to two decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Capacity in litres is most closely related to**

A perimeter

B surface area only

C volume

D angle measure

Understand It with Pulse | Flag a mistake

14 **Surface area is measured in**

A cubic units

B litres only

C degrees

D square units

Understand It with Pulse | Flag a mistake

15 **A cube has side 6. Its surface area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A cube has side 5. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A cylinder has radius 2 and height 10. Using pi as 3.14 its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A rectangular prism has length 8 width 3 and height 2. Its surface area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A rectangular prism has length 6 width 3 and height 2. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A cube has side 3. Its surface area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A cube has side 7. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A cylinder has radius 5 and height 4. Using pi as 3.14 its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A rectangular prism has length 3 width 3 and height 10. Its surface area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A rectangular prism has length 10 width 2 and height 4. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 96
2. 64
3. 141.3
4. 94
5. 60
6. 60
7. 90
8. B
9. B
10. 72
11. 113.04
12. 33.49
13. C
14. D
15. 216
16. 125
17. 125.6
18. 92
19. 36
20. 60
21. 54
22. 343
23. 314
24. 138
25. 80

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