Measurement, Surface Area and Volume — Practice Test

Saskatchewan Foundations of Mathematics and Pre-calculus 10 • 25 questions

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 right prism has a triangular base with base 4 cm and height 4 cm, and the prism is 10 cm long. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The surface area of a rectangular prism 9 cm by 6 cm by 8 cm, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Using pi equals 3.14, the volume of a cylinder with radius 5 cm and height 7 cm, in cm³, is approximately**

- A 549.5
- B 109.9
- C 628
- D 219.8

Understand It with Pulse | Flag a mistake

4 **Using pi equals 3.14, the surface area of a sphere with radius 6 cm, in cm², is approximately**

- A 113.04
- B 452.16
- C 75.36
- D 226.08

Understand It with Pulse | Flag a mistake

5 **A tank holds 3750 litres. Its capacity, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Using pi equals 3.14, the volume of a cone with radius 6 cm and height 12 cm, in cm³, is approximately**

A 1356.48

B 226.08

C 678.24

D 452.16

Understand It with Pulse | Flag a mistake

7 **A right prism has a triangular base with base 4 cm and height 6 cm, and the prism is 10 cm long. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The surface area of a rectangular prism 4 cm by 2 cm by 2 cm, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Using pi equals 3.14, the volume of a cylinder with radius 3 cm and height 7 cm, in cm³, is approximately**

A 65.94

B 226.08

C 197.82

D 131.88

Understand It with Pulse | Flag a mistake

10 **Using pi equals 3.14, the surface area of a sphere with radius 3 cm, in cm², is approximately**

A 28.26

B 37.68

C 56.52

D 113.04

Understand It with Pulse | Flag a mistake

11 **A tank holds 2500 litres. Its capacity, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Using pi equals 3.14, the volume of a cone with radius 6 cm and height 4 cm, in cm³, is approximately**

- A 452.16
- B 150.72
- C 75.36
- D 226.08

Understand It with Pulse | Flag a mistake

13 **A right prism has a triangular base with base 11 cm and height 4 cm, and the prism is 10 cm long. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **The surface area of a rectangular prism 7 cm by 2 cm by 4 cm, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Using pi equals 3.14, the volume of a cylinder with radius 5 cm and height 6 cm, in cm³, is approximately**

A 471

B 94.2

C 549.5

D 188.4

Understand It with Pulse | Flag a mistake

16 **Using pi equals 3.14, the surface area of a sphere with radius 9 cm, in cm², is approximately**

A 1017.36

B 254.34

C 113.04

D 508.68

Understand It with Pulse | Flag a mistake

17 **A right prism has a triangular base with base 7 cm and height 9 cm, and the prism is 10 cm long. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The surface area of a rectangular prism 5 cm by 6 cm by 5 cm, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Using pi equals 3.14, the volume of a cylinder with radius 5 cm and height 5 cm, in cm³, is approximately**

A 78.5

B 392.5

C 471

D 157

Understand It with Pulse | Flag a mistake

20 A right prism has a triangular base with base 6 cm and height 5 cm, and the prism is 5 cm long. Its volume, in cm^3, is

ANSWER _____

Understand It with Pulse | Flag a mistake

21 The surface area of a rectangular prism 7 cm by 3 cm by 8 cm, in cm^2, is

ANSWER _____

Understand It with Pulse | Flag a mistake

22 A right prism has a triangular base with base 4 cm and height 10 cm, and the prism is 10 cm long. Its volume, in cm^3, is

ANSWER _____

Understand It with Pulse | Flag a mistake

23 The surface area of a rectangular prism 5 cm by 4 cm by 2 cm, in cm^2, is

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A right prism has a triangular base with base 10 cm and height 12 cm, and the prism is 6 cm long. Its volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The surface area of a rectangular prism 6 cm by 6 cm by 9 cm, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	80	**10.**	D	**19.**	B
2.	348	**11.**	2500000	**20.**	75
3.	A	**12.**	B	**21.**	202
4.	B	**13.**	220	**22.**	200
5.	3750000	**14.**	100	**23.**	76
6.	D	**15.**	A	**24.**	360
7.	120	**16.**	A	**25.**	288
8.	40	**17.**	315		
9.	C	**18.**	170		

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