ALBERTA MATH 10C · UNIT 7 · 25 QUESTIONS

Measurement — 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 **The length 3.5 m, expressed in centimetres, is**

- A 0.35 cm
- B 35 cm
- C 350 cm
- D 3500 cm

Understand It with Pulse | Flag a mistake

2 **A board is 48 inches long. The length of the board, in feet, is**

- A 2 ft
- B 4 ft
- C 12 ft
- D 576 ft

Understand It with Pulse | Flag a mistake

3 **A rectangular prism has a length of 8 cm, a width of 5 cm, and a height of 3 cm. The volume of the prism is**

- A 40 cm^3
- B 55 cm^3
- C 158 cm^3
- D 120 cm^3

Understand It with Pulse | Flag a mistake

4 **The surface area of a cube with an edge length of 5 cm is**

- A 150 cm^2
- B 125 cm^2
- C 100 cm^2
- D 25 cm^2

Understand It with Pulse | Flag a mistake

5 **The most reasonable height for an interior door in a house is**

- **A** 21 cm
- **B** 2.1 m
- **C** 21 m
- **D** 0.21 m

Understand It with Pulse | Flag a mistake

6 **A cylinder has a radius of 3 cm and a height of 10 cm. Using the π key on your calculator, the volume of the cylinder, to the nearest tenth, is**

- **A** 94.2 cm^3
- **B** 188.5 cm^3
- **C** 282.7 cm^3
- **D** 565.5 cm^3

Understand It with Pulse | Flag a mistake

7 **Using the conversion 1 in = 2.54 cm, the diagonal measure of a 32 inch television screen, in centimetres, is**

- **A** 81.28 cm
- **B** 12.60 cm
- **C** 68.58 cm
- **D** 254 cm

Understand It with Pulse | Flag a mistake

8 **A closed cylinder has a radius of 4 cm and a height of 9 cm. Using the π key on your calculator, the surface area of the cylinder, to the nearest whole number, is ____ cm².**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A triangular prism has the triangular base shown. The base has a base of 6 cm and a height of 4 cm. The length of the prism is 10 cm. The volume of the prism is**

- A 60 cm^3
- B 96 cm^3
- C 240 cm^3
- D 120 cm^3

Understand It with Pulse | Flag a mistake

10 **A cone has a radius of 6 cm and a height of 8 cm. Using the π key on your calculator, the volume of the cone, to the nearest tenth, is**

- A 100.5 cm^3
- B 301.6 cm^3
- C 603.2 cm^3
- D 904.8 cm^3

Understand It with Pulse | Flag a mistake

11 **A sphere has a radius of 7 cm. Using the π key on your calculator, the surface area of the sphere, to the nearest whole number, is**

- **A** 154 cm²
- **B** 308 cm²
- **C** 616 cm²
- **D** 1437 cm²

Understand It with Pulse | Flag a mistake

12 **A sphere has a radius of 3 cm. Using the π key on your calculator, the volume of the sphere, to the nearest tenth, is ____ cm³.**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A square-based pyramid has a base side length of 10 cm and a height of 12 cm. The volume of the pyramid is**

- A 400 cm^3
- B 1200 cm^3
- C 200 cm^3
- D 340 cm^3

Understand It with Pulse | Flag a mistake

14 **A driveway is 5 yd long. The length of the driveway, in inches, is**

- A 15 in
- B 60 in
- C 96 in
- D 180 in

Understand It with Pulse | Flag a mistake

15 **A fish tank measures 60 cm by 40 cm by 35 cm. Given that 1 L = 1000 cm³, the number of litres of water the tank can hold is ____ L.**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A closed cylindrical can has a radius of 5 cm and a height of 12 cm. Using the π key on your calculator, the amount of metal needed to make the can, to the nearest tenth, is**

A 377.0 cm²

B 219.9 cm²

C 534.1 cm²

D 659.7 cm²

Understand It with Pulse | Flag a mistake

17 **Using the approximate conversion 1 kg = 2.2 lb, a mass of 15 kg is approximately**

A 6.8 lb

B 33 lb

C 30 lb

D 37.5 lb

Understand It with Pulse | Flag a mistake

18 **A square-based pyramid has a base side length of 8 cm and a slant height of 5 cm. One triangular face of the pyramid is shown. The surface area of the pyramid is ____ cm².**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A floor has an area of 12 m².The area of the floor, in cm², is**

- **A** 120000 cm²
- **B** 1200 cm²
- **C** 120 cm²
- **D** 12000 cm²

Understand It with Pulse | Flag a mistake

20 **A cone has a radius of 3 cm and a slant height of 7 cm. Using 3.14 for π, the surface area of the cone, to the nearest tenth, is ____ cm².**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A cylindrical water tank has a diameter of 2 m and a height of 3 m. Using the π key on your calculator, the volume of water the tank can hold, to the nearest whole number, is**

- **A** 3 m^3
- **B** 19 m^3
- **C** 38 m^3
- **D** 9 m^3

Understand It with Pulse | Flag a mistake

22 **A solid is made up of a cylinder with a radius of 2 cm and a height of 6 cm, with a hemisphere of radius 2 cm sitting on top of the cylinder. Using the π key on your calculator, the total volume of the solid, to the nearest tenth, is ____ cm^3.**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **An open rectangular box (with no top) has a length of 10 cm, a width of 6 cm, and a height of 4 cm. The surface area of the box is**

- A 248 cm^2
- B 240 cm^2
- C 188 cm^2
- D 128 cm^2

Understand It with Pulse | Flag a mistake

24 **A student is 5 ft 9 in tall. Using the conversion 1 in = 2.54 cm, the student's height, to the nearest tenth of a centimetre, is**

- A 165.1 cm
- B 175.3 cm
- C 177.8 cm
- D 160.0 cm

Understand It with Pulse | Flag a mistake

25 **Small cubes with an edge length of 2 cm are packed into a box that measures 12 cm by 8 cm by 6 cm. The number of small cubes that fit in the box is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. B
3. D
4. A
5. B
6. C
7. A
8. 327
9. D
10. B
11. C
12. 113.1
13. A
14. D
15. 84
16. C
17. B
18. 144
19. A
20. 94.2
21. D
22. 92.2
23. C
24. B
25. 72

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