

Brett Robbins Academic Consulting

Mathematics 10C Practice Test

Unit 7: Measurement

10 Questions

Original practice questions written to the Alberta curriculum, in the style of past diploma examinations. Work through each question, then check your answers with the key at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, contact Brett for clarification.

Question 1

The length 3.5 m, expressed in centimetres, is

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

Question 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 |

Question 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 |

Question 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 |

Question 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

Question 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 cm³
- B) 188.5 cm³
- C) 282.7 cm³
- D) 565.5 cm³

Question 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

Question 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.

Question 9

A triangular prism has a triangular base with 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

Question 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

Answer Key

- | | | |
|------|--------|-------|
| 1. C | 5. B | 9. D |
| 2. B | 6. C | 10. B |
| 3. D | 7. A | |
| 4. A | 8. 327 | |

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