ALBERTA MATH 30-3 · UNIT 1 · 10 QUESTIONS

Precision, Accuracy and Tolerance — 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 rope is 5 yd long. Its length, in feet, is**

- **A** 15 ft
- **B** 60 ft
- **C** 1.67 ft
- **D** 180 ft

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2 **A ribbon is 1.2 m long. A piece 35 cm long is cut off it. The length of ribbon remaining, in centimetres, is**

- A 155 cm
- B 75 cm
- C 85 cm
- D 0.85 cm

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3 **Which measurement of room temperature is the most precise?**

- A 21.4°C
- B 21.45°C
- C 21°C
- D 21.5°C

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4 **A painter must measure the length of a living room wall to the nearest centimetre before buying baseboards. The most suitable instrument is a**

- **A** tape measure
- **B** micrometer
- **C** kitchen scale
- **D** thermometer

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5 **A garden hose fitting must have a length of 120 mm ± 3 mm. The minimum acceptable length of the fitting is**

- **A** 123 mm
- **B** 120 mm
- **C** 126 mm
- **D** 117 mm

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6 **A postal scale displays masses such as 4.250 kg. The scale measures to the nearest**

- **A** 0.1 kg
- **B** 0.01 kg
- **C** 0.001 kg
- **D** 1 kg

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7 **A framer reports all lengths rounded to the nearest eighth of an inch. Which of the following could be one of her reported lengths?**

- **A** $1\frac{1}{16}$ in.
- **B** $3\frac{5}{8}$ in.
- **C** $2\frac{1}{5}$ in.
- **D** $2\frac{1}{3}$ in.

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8 **A greenhouse temperature is reported as 23.5°C ± 0.2°C. The maximum possible actual temperature is**

- A 23.7°C
- B 23.3°C
- C 25.5°C
- D 23.52°C

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9 **A tire should be inflated to 32 psi with a tolerance of 2 psi. The graph shows the gauge readings for the tire over four checks. The most recent reading, the last point on the graph, is**

- A acceptable, because 35 psi is within the tolerance
- B too low, because it is below the minimum of 30 psi
- C acceptable, because it is exactly at the maximum of 34 psi
- D too high, because it is above the maximum of 34 psi

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10 **A plumber needs the length of a 1.5 m pipe in inches. Using 1 in. = 2.54 cm, the length of the pipe, to the nearest inch, is**

- **A** 38 in.
- **B** 60 in.
- **C** 59 in.
- **D** 590 in.

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ANSWER KEY

1.	A	**5.**	D	**9.**	D
2.	C	**6.**	C	**10.**	C
3.	B	**7.**	B		
4.	A	**8.**	A		

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