ALBERTA MATH 10-3 · UNIT 1 · 25 QUESTIONS

Measurement and Conversions — 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 2.8 m long. The length of the rope, in centimetres, is**

- **A** 28 cm
- **B** 280 cm
- **C** 2800 cm
- **D** 0.28 cm

Understand It with Pulse | Flag a mistake

2 **A ribbon is 36 inches long. The length of the ribbon, in feet, is**

- **A** 3 ft
- **B** 2 ft
- **C** 12 ft
- **D** 432 ft

Understand It with Pulse | Flag a mistake

3 **A carpenter joins a piece of trim that is $2\frac{3}{8}$ in long to a piece that is $1\frac{1}{4}$ in long. The total length, in inches, is**

- **A** $3\frac{1}{2}$ in
- **B** $3\frac{3}{8}$ in
- **C** $3\frac{5}{8}$ in
- **D** $4\frac{5}{8}$ in

Understand It with Pulse | Flag a mistake

4 **The graph shows temperature in degrees Fahrenheit against temperature in degrees Celsius. The temperature in degrees Fahrenheit that corresponds to 20°C is**

A 52°F

B 60°F

C 36°F

D 68°F

Understand It with Pulse | Flag a mistake

5 **A garden bed measures 4 m by 3 m. The area of the garden bed, in cm², is**

A 120000 cm²

B 12000 cm²

C 1200 cm²

D 120 cm²

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6 **A bag of flour has a mass of 2500 g. The mass of the bag, in kilograms, is**

- A 25 kg
- B 2.5 kg
- C 0.25 kg
- D 250 kg

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7 **A jug holds 3500 mL of juice. The capacity of the jug, in litres, is**

- A 0.35 L
- B 35 L
- C 3.5 L
- D 350 L

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8 **The most reasonable mass for a paperclip is**

A 1 kg

B 100 g

C 10 g

D 1 g

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9 **A child is 5 ft 6 in tall. The height of the child, in inches, is**

A 56 in

B 60 in

C 66 in

D 72 in

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10 **Using the conversion 1 in = 2.54 cm, a photo that is 10 in wide, in centimetres, is**

- **A** 25.4 cm
- **B** 3.94 cm
- **C** 254 cm
- **D** 12.7 cm

Understand It with Pulse | Flag a mistake

11 **A classroom floor measures 9 ft by 12 ft. The area of the floor, in square yards, is**

- **A** 36 yd^2
- **B** 12 yd^2
- **C** 108 yd^2
- **D** 972 yd^2

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12 **A drill bit is $\frac{3}{8}$ in wide. Expressed in sixteenths of an inch, this width is**

- **A** $\frac{3}{16}$ in
- **B** $\frac{5}{16}$ in
- **C** $\frac{8}{16}$ in
- **D** $\frac{6}{16}$ in

Understand It with Pulse | Flag a mistake

13 **A storage box measures 30 cm by 20 cm by 10 cm. Given that 1 L = 1000 cm³, the capacity of the box, in litres, is**

- **A** 0.6 L
- **B** 60 L
- **C** 6 L
- **D** 600 L

Understand It with Pulse | Flag a mistake

14 Using $C = \frac{5}{9}(F - 32)$, a temperature of 77°F, in degrees Celsius, is

- **A** 25°C
- **B** 45°C
- **C** 42.8°C
- **D** 20°C

Understand It with Pulse | Flag a mistake

15 A suitcase has a mass of 20 kg. The graph shows mass in pounds against mass in kilograms. The mass of the suitcase, in pounds, is approximately

- **A** 9.1 lb
- **B** 44 lb
- **C** 40 lb
- **D** 22 lb

Understand It with Pulse | Flag a mistake

16 **A walking trail marker is 350 m ahead. This distance, in kilometres, is**

- A 35 km
- B 3.5 km
- C 0.35 km
- D 0.035 km

Understand It with Pulse | Flag a mistake

17 **The most reasonable length for a family car is**

- A 45 cm
- B 45 m
- C 0.045 m
- D 4.5 m

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18 **A recipe calls for 3 gal of water. Given that 1 gal = 4 qt, this amount, in quarts, is**

- **A** 12 qt
- **B** 6 qt
- **C** 3 qt
- **D** 48 qt

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19 **A board is $5\frac{1}{2}$ in long. A piece $2\frac{3}{4}$ in long is cut off. The length of the piece remaining, in inches, is**

- **A** $2\frac{1}{4}$ in
- **B** $3\frac{1}{4}$ in
- **C** $2\frac{3}{4}$ in
- **D** $3\frac{3}{4}$ in

Understand It with Pulse | Flag a mistake

20 **A rug has an area of 2.5 m^2.The area of the rug, in cm^2, is**

- A 250 cm^2
- B 25000 cm^2
- C 2500 cm^2
- D 250000 cm^2

Understand It with Pulse | Flag a mistake

21 **A farm tank has a volume of 2 m^3.Given that 1 m^3 = 1000 L, the capacity of the tank, in litres, is**

- A 2 L
- B 20 L
- C 200 L
- D 2000 L

Understand It with Pulse | Flag a mistake

22 **A worker is 5 ft tall. Using the conversion 1 in = 2.54 cm, the height of the worker, in centimetres, is**

- A 152.4 cm
- B 60 cm
- C 127 cm
- D 182.88 cm

Understand It with Pulse | Flag a mistake

23 **A package of ground beef has a mass of 8 lb. Given that 1 lb = 16 oz, this mass, in ounces, is**

- A 16 oz
- B 64 oz
- C 128 oz
- D 8 oz

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24 **A clerk cuts a ribbon that is 2 m long into equal pieces that are each 25 cm long. The number of pieces the clerk gets is**

- **A** 4
- **B** 5
- **C** 80
- **D** 8

Understand It with Pulse | Flag a mistake

25 **Using $F = \frac{9}{5}C + 32$, an oven temperature of 180°C, in degrees Fahrenheit, is**

- **A** 324°F
- **B** 356°F
- **C** 212°F
- **D** 180°F

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**10.**	A	**19.**	C
2.	A	**11.**	B	**20.**	B
3.	C	**12.**	D	**21.**	D
4.	D	**13.**	C	**22.**	A
5.	A	**14.**	A	**23.**	C
6.	B	**15.**	B	**24.**	D
7.	C	**16.**	C	**25.**	B
8.	D	**17.**	D		
9.	C	**18.**	A		

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