ALBERTA MATH 10C · UNIT 4 · 5 QUESTIONS

Relations and Functions — 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 relation pairs x: -2, -1, 0, 1 with y: 3, 5, 3, 7 The domain and range of the relation are**

- A Domain: {-2, -1, 0, 1} Range: {3, 5, 7}
- B Domain: {3, 5, 7} Range: {-2, -1, 0, 1}
- C Domain: {-2, -1, 0, 1} Range: {3, 5}
- D Domain: {-2, -1, 0, 1, 3, 5, 7} Range: {3, 5, 7}

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2 **Scuba diver swimming underwater with a silver oxygen tank on their back, clear blue water, sunlight from above. The function V(t) represents the volume of water, in litres, in a tank after t minutes of filling. The statement V(8) = 120 means**



A After 120 minutes, the tank contains 8 L of water

B After 8 hours, the tank contains 120 L of water

C The tank contains 120 L of water before any filling begins

D After 8 minutes, the tank contains 120 L of water

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3 **The graph shown is a line segment. The range of f is**

A $-4 \leq x \leq 2$

B $-2 < y < 6$

C $-4 \leq y \leq 2$

D $-2 \leq y \leq 6$

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4 **If f(x) = 4x - 9 and f(x) = 23, then the value of x is ____**

ANSWER _____

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5 **Which situation is best represented by a continuous graph?**

A The number of text messages sent each day

B The depth of water in a lake throughout a year

C The number of students in each classroom in a school

D The number of tickets sold for each show

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ANSWER KEY

1. A
2. D
3. D
4. 8
5. B

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