ALBERTA MATH 20-2 · UNIT 8 · 10 QUESTIONS

Linear Relations and Systems — 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 slope of the line through the points (2, -3) and (-4, 3) is**

- A 1
- B -1
- C -6
- D 6

Understand It with Pulse | Flag a mistake

2 **When the system x = 2y + 1 and 3x + y = 17 is solved, the value of y is**

- A 2
- B 5
- C 3
- D 1

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3 **A lemonade stand has start-up costs of $96. Each cup costs $0.50 to make and sells for $2.00. The number of cups that must be sold to break even is ____**

ANSWER _____

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4 **The solution to the inequality 2x + 7 < 3 is**

A x > -2

B x < 2

C x < -2

D x > 5

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5 **The graph shows a line that crosses both axes. Its equation in slope-intercept form is**

- **A** $y = \frac{1}{2}x - 2$
- **B** $y = 2x - 2$
- **C** $y = -\frac{1}{2}x - 2$
- **D** $y = \frac{1}{2}x + 2$

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6 **When the system $2x + 3y = 12$ and $x + y = 5$ is solved, the value of x is**

- **A** 2
- **B** 5
- **C** 1
- **D** 3

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7 **The sum of two numbers is 32. Twice the first number plus the second number is 46. The first number is ____**

ANSWER _____

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8 **Company A charges a $30 setup fee plus $0.08 per page printed. Company B charges a $10 setup fee plus $0.12 per page. Company B charges less than Company A when the number of pages printed is**

A More than 500

B Exactly 500

C Fewer than 500

D Any number of pages

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9 **The solution to the inequality -3x + 2 ≥ 14 is**

A $x \geq -4$

B $x \leq -4$

C $x \leq 4$

D $x \geq 4$

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10 **Adult tickets to a play cost $12 each and child tickets cost $7 each. A group buys 20 tickets and pays $190 in total. The number of adult tickets purchased is ____**

ANSWER _____

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ANSWER KEY

1.	B	**5.**	A	**9.**	B
2.	A	**6.**	D	**10.**	10
3.	64	**7.**	14		
4.	C	**8.**	C		

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