

1. Write in symbols: The product of 3 and the quantity x less 6 is the same as 9 less than x .
 - A. $3(6 - x) = x - 9$
 - B. $3(x - 6) = x - 9$
 - C. $3x - 6 = 9 - x$
 - D. $3x - 6 = x - 9$

2. A banana costs 55 cents and an apple costs 30 cents. The total cost of x bananas and y apples is
 - A. $55xy + 30$
 - B. $80xy$
 - C. $55y + 30x$
 - D. $55x + 30y$

3. If $x = -2$ and $y = -4$, the value of $3x^2 - 4xy - 2y^2$ is
 - A. -52
 - B. -84
 - C. -12
 - D. 52

4. If $x = -2$ and $y = -10$ then $xy^2 - (xy)^2 =$
 - A. 0
 - B. 400
 - C. -600
 - D. 200

5. Simplify: $3x(x - 2) - 5x(2x - 1)$
 - A. $13x^2 - x$
 - B. $-7x^2 - 11x$
 - C. $-7x^2 - x$
 - D. $-7x^2 - 11$

6. Simplify: $10x - 5y + 3(x + y - 4)$
 - A. $13x - 8y - 12$
 - B. $13x^2 - 2y^2 - 12$
 - C. $13x^2 - 8y^2 - 12$
 - D. $13x - 2y - 12$

7. $3x + 2x + 1 + 4 = 0$; Find the value of x .

- A. 1
- B. -1
- C. -5
- D. 5

8. If $ax + 2b = k$ then $x =$

- A. $k - 2b - a$
- B. $k + 2b - a$
- C. $\frac{k-2b}{a}$
- D. $\frac{k+2b}{a}$

9. $\frac{2x+4}{3} = \frac{x+12}{4}$

- A. 4
- B. -4
- C. $\frac{1}{4}$
- D. $-\frac{1}{4}$

10. Which is equivalent to $12 - \frac{1}{3}x \geq 10$

- A. $x \geq 6$
- B. $x \geq -6$
- C. $x \leq 6$
- D. $x \leq -6$

11. Find the value of x and y .

$$\begin{cases} 3x - 5y = 1 \\ x = 6y - 4 \end{cases}$$

- A. (1,2)
- B. (1,-2)
- C. (-2,1)
- D. (2,1)

Answers:

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