



Name: _____

Date: _____

1. Evaluate $6x + 4$ when $x = 8$.

47

56

52

50

2. Simplify: $3x + 5x$

 $8x$ $8x^2$

8

 $15x$

3. Which expression means "2 more than a number x "?

 $x - 2$ $2x$ $x + 2$ $x \div 2$

4. Evaluate $2x + y$ when $x = 7$ and $y = 6$.

21

23

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19

5. Use the distributive property: $4(x + 4)$

 $8x$ $4x + 8$ $4x + 4$ $4x + 16$



6. Simplify: $4x - 2x$

7. Which expression means "the product of a number x and 5"?

☐ $x + 5$ ☐ $x - 5$ ☐ $\frac{x}{5}$ ☐ $5x$

8. Which expression means "a number x divided by 3"?

☐ $x + 3$ ☐ $3x$ ☐ $x - 3$ ☐ $\frac{x}{3}$

9. Evaluate $6x + 6$ when $x = 4$.

10. Evaluate $6x + 1$ when $x = 8$.

☐ 53 ☐ 52 ☐ 49 ☐ 51

11. Simplify: $5x + 3x$

☐ $15x$ ☐ $8x$ ☐ $8x^2$ ☐ 8



12. Which expression means "9 more than a number x "?

$9x$

$x \div 9$

$x - 9$

$x + 9$

13. Evaluate $3x + y$ when $x = 6$ and $y = 8$.

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14. Use the distributive property: $4(x + 1)$

$4x + 1$

$4x + 5$

$5x$

$4x + 4$

15. Simplify: $7x - 5x$

$12x$

$2x$

2

$35x$

16. Which expression means "the product of a number x and 4"?

$\frac{x}{4}$

$x + 4$

$x - 4$

$4x$



17. Which expression means "a number x divided by 9"?

$x - 9$

$x + 9$

$9x$

$\frac{x}{9}$

18. Evaluate $2x + 2$ when $x = 4$.



Answer Key

1. **52** $6 \times 8 + 4 = 52$.
2. $8x$ Combine like terms: $3x + 5x = 8x$.
3. $x + 2$ "2 more than x " is $x + 2$.
4. **20** $2 \times 7 + 6 = 14 + 6 = 20$.
5. $4x + 16$ $4(x + 4) = 4x + 4 \times 4 = 4x + 16$.
6. $2x$ $4x - 2x = 2x$.
7. $5x$ "the product of a number x and 5" is $5x$.
8. $\frac{x}{3}$ "a number x divided by 3" is $x/3$.
9. **30** $= 30$.
10. **49** $6 \times 8 + 1 = 49$.
11. $8x$ Combine like terms: $5x + 3x = 8x$.
12. $x + 9$ "9 more than x " is $x + 9$.
13. **26** $3 \times 6 + 8 = 18 + 8 = 26$.
14. $4x + 4$ $4(x + 1) = 4x + 4 \times 1 = 4x + 4$.
15. $2x$ $7x - 5x = 2x$.
16. $4x$ "the product of a number x and 4" is $4x$.
17. $\frac{x}{9}$ "a number x divided by 9" is $x/9$.
18. **10** $= 10$.