



Name: _____

Date: _____

1. Evaluate $3x + 2$ when $x = 5$.

16

17

18

12

2. Simplify: $6x + 2x$

 $8x^2$ $12x$ $8x$

8

3. Which expression means "4 more than a number x "?

 $x - 4$ $x + 4$ $x \div 4$ $4x$

4. Evaluate $2x + y$ when $x = 1$ and $y = 5$.

7

9

8

4

5. Use the distributive property: $2(x + 5)$

 $2x + 10$ $7x$ $2x + 5$ $2x + 7$



6. Simplify: $8x - 4x$

7. Which expression means "the product of a number x and 8"?

☐ $x + 8$ ☐ $8x$ ☐ $\frac{x}{8}$ ☐ $x - 8$

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

☐ $x + 8$ ☐ $x - 8$ ☐ $8x$ ☐ $\frac{x}{8}$

9. Evaluate $6x + 2$ when $x = 4$.

10. Evaluate $4x + 7$ when $x = 7$.

☐ 38 ☐ 34 ☐ 35 ☐ 40

11. Simplify: $5x + 6x$

☐ $11x^2$ ☐ $30x$ ☐ 11 ☐ $11x$



12. Which expression means "10 more than a number x "?

$x \div 10$

$10x$

$x - 10$

$x + 10$

13. Evaluate $4x + y$ when $x = 3$ and $y = 1$.

9

15

13

14

14. Use the distributive property: $2(x + 2)$

$2x + 4$

$4x$

$2x + 2$

15. Simplify: $9x - 6x$

$15x$

$54x$

3

$3x$

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

$x - 5$

$\frac{x}{5}$

$5x$

$x + 5$



17. Which expression means "a number x divided by 6"?

$x + 6$

$\frac{x}{6}$

$6x$

$x - 6$

18. Evaluate $4x + 2$ when $x = 8$.



Answer Key

1. **17** $3 \times 5 + 2 = 17$.
2. $8x$ Combine like terms: $6x + 2x = 8x$.
3. $x + 4$ "4 more than x " is $x + 4$.
4. **7** $2 \times 1 + 5 = 2 + 5 = 7$.
5. $2x + 10$ $2(x + 5) = 2x + 2 \times 5 = 2x + 10$.
6. $4x$ $8x - 4x = 4x$.
7. $8x$ "the product of a number x and 8" is $8x$.
8. $\frac{x}{8}$ "a number x divided by 8" is $x/8$.
9. **26** $= 26$.
10. **35** $4 \times 7 + 7 = 35$.
11. $11x$ Combine like terms: $5x + 6x = 11x$.
12. $x + 10$ "10 more than x " is $x + 10$.
13. **13** $4 \times 3 + 1 = 12 + 1 = 13$.
14. $2x + 4$ $2(x + 2) = 2x + 2 \times 2 = 2x + 4$.
15. $3x$ $9x - 6x = 3x$.
16. $5x$ "the product of a number x and 5" is $5x$.
17. $\frac{x}{6}$ "a number x divided by 6" is $x/6$.
18. **34** $= 34$.