



Name: _____

Date: _____

1. Evaluate $3x + 3$ when $x = 4$.

15

17

18

10

2. Simplify: $5x + 6x$

 $30x$

11

 $11x$ $11x^2$

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

 $x \div 3$ $x + 3$ $x - 3$ $3x$

4. Evaluate $2x + y$ when $x = 4$ and $y = 8$.

17

13

12

16

5. Use the distributive property: $2(x + 6)$

 $2x + 12$ $2x + 6$ $2x + 8$ $8x$



6. Simplify: $8x - 5x$

$3x$

$40x$

$13x$

3

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

$x - 8$

$8x$

$x + 8$

$\frac{x}{8}$

8. Which expression means "a number x divided by 4"?

$\frac{x}{4}$

$x + 4$

$x - 4$

$4x$

9. Evaluate $5x + 5$ when $x = 5$.

10. Evaluate $3x + 3$ when $x = 7$.

23

24

25

27



11. Simplify: $4x + 5x$

9

$20x$

$9x^2$

$9x$

12. Which expression means "5 more than a number x "?

$5x$

$x \div 5$

$x - 5$

$x + 5$

13. Evaluate $3x + y$ when $x = 3$ and $y = 7$.

12

16

14

15

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

$5x + 7$

$5x + 10$

$5x + 2$

$7x$

15. Simplify: $8x - 2x$

$10x$

$6x$

6

$16x$



16. Which expression means "the product of a number x and 9"?

$9x$

$\frac{x}{9}$

$x + 9$

$x - 9$

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

$8x$

$x + 8$

$\frac{x}{8}$

$x - 8$

18. Evaluate $3x + 8$ when $x = 3$.



Answer Key

1. **15** $3 \times 4 + 3 = 15$.
2. **11x** Combine like terms: $5x + 6x = 11x$.
3. $x + 3$ "3 more than x" is $x + 3$.
4. **16** $2 \times 4 + 8 = 8 + 8 = 16$.
5. $2x + 12$ $2(x + 6) = 2x + 2 \times 6 = 2x + 12$.
6. $3x$ $8x - 5x = 3x$.
7. $8x$ "the product of a number x and 8" is $8x$.
8. $\frac{x}{4}$ "a number x divided by 4" is $x/4$.
9. **30** $= 30$.
10. **24** $3 \times 7 + 3 = 24$.
11. $9x$ Combine like terms: $4x + 5x = 9x$.
12. $x + 5$ "5 more than x" is $x + 5$.
13. **16** $3 \times 3 + 7 = 9 + 7 = 16$.
14. $5x + 10$ $5(x + 2) = 5x + 5 \times 2 = 5x + 10$.
15. $6x$ $8x - 2x = 6x$.
16. $9x$ "the product of a number x and 9" is $9x$.
17. $\frac{x}{8}$ "a number x divided by 8" is $x/8$.
18. **17** $= 17$.