



Name: _____

Date: _____

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

10

6

7

11

2. Simplify: $3x + 3x$

$6x^2$

$6x$

6

$9x$

3. Which expression means "6 more than a number x "?

$6x$

$x \div 6$

$x + 6$

$x - 6$

4. Evaluate $2x + y$ when $x = 8$ and $y = 6$.

26

22

18

23

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

$5x + 6$

$5x + 30$

$11x$

$5x + 11$



6. Simplify: $8x - 6x$

2

$48x$

$14x$

$2x$

7. Which expression means "the product of a number x and 6"?

$x - 6$

$6x$

$\frac{x}{6}$

$x + 6$

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

$3x$

$\frac{x}{3}$

$x + 3$

$x - 3$

9. Evaluate $5x + 1$ when $x = 7$.

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

16

18

14

17



11. Simplify: $4x + 5x$

$9x^2$

$9x$

$20x$

9

12. Which expression means "7 more than a number x "?

$x - 7$

$x \div 7$

$7x$

$x + 7$

13. Evaluate $2x + y$ when $x = 2$ and $y = 5$.

6

8

10

9

14. Use the distributive property: $4(x + 2)$

$4x + 6$

$4x + 8$

$6x$

$4x + 2$

15. Simplify: $6x - 5x$

$30x$

$1x$

1

$11x$



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

$\frac{x}{9}$

$9x$

$x - 9$

$x + 9$

17. Which expression means "a number x divided by 5"?

$x + 5$

$\frac{x}{5}$

$x - 5$

$5x$

18. Evaluate $5x + 6$ when $x = 2$.



Answer Key

1. **10** $4 \times 2 + 2 = 10$.
2. $6x$ Combine like terms: $3x + 3x = 6x$.
3. $x + 6$ "6 more than x " is $x + 6$.
4. **22** $2 \times 8 + 6 = 16 + 6 = 22$.
5. $5x + 30$ $5(x + 6) = 5x + 5 \times 6 = 5x + 30$.
6. $2x$ $8x - 6x = 2x$.
7. $6x$ "the product of a number x and 6" is $6x$.
8. $\frac{x}{3}$ "a number x divided by 3" is $x/3$.
9. **36** $= 36$.
10. **17** $4 \times 2 + 9 = 17$.
11. $9x$ Combine like terms: $4x + 5x = 9x$.
12. $x + 7$ "7 more than x " is $x + 7$.
13. **9** $2 \times 2 + 5 = 4 + 5 = 9$.
14. $4x + 8$ $4(x + 2) = 4x + 4 \times 2 = 4x + 8$.
15. $1x$ $6x - 5x = 1x$.
16. $9x$ "the product of a number x and 9" is $9x$.
17. $\frac{x}{5}$ "a number x divided by 5" is $x/5$.
18. **16** $= 16$.