

# Substituting Values into Expressions

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Instructions:

Replace the variable with the given number and calculate the answer. Show your working.

*Example: If  $n = 4$ , find  $3n + 5 \rightarrow 3 \times 4 + 5 = 12 + 5 = 17$*

## Part A: Find the value of each expression when $n = 6$

1.  $n + 8 =$  \_\_\_\_\_

2.  $2n =$  \_\_\_\_\_

3.  $3n + 4 =$  \_\_\_\_\_

4.  $5n - 10 =$  \_\_\_\_\_

5.  $4n + 7 =$  \_\_\_\_\_

6.  $20 - n =$  \_\_\_\_\_

## Part B: Find the value of each expression when $x = 5$

1.  $x + 12 =$  \_\_\_\_\_

2.  $6x =$  \_\_\_\_\_

3.  $2x + 9 =$  \_\_\_\_\_

4.  $4x - 5 =$  \_\_\_\_\_

5.  $10x + 3 =$  \_\_\_\_\_

6.  $50 - 3x =$  \_\_\_\_\_

## Part C: Find the value of each expression when $a = 10$

1.  $a - 7 =$  \_\_\_\_\_

2.  $3a =$  \_\_\_\_\_

3.  $2a + 15 =$  \_\_\_\_\_

4.  $5a - 20 =$  \_\_\_\_\_

5.  $a + 2a =$  \_\_\_\_\_

6.  $100 - 4a =$  \_\_\_\_\_

## Part D: Mixed Practice - Substitute the given value

1. If  $b = 8$ , find  $3b + 6 =$  \_\_\_\_\_

2. If  $y = 4$ , find  $5y - 8 =$  \_\_\_\_\_

3. If  $m = 7$ , find  $2m + 10 =$  \_\_\_\_\_

4. If  $p = 3$ , find  $6p + 1 =$  \_\_\_\_\_

5. If  $t = 12$ , find  $4t - 20 =$  \_\_\_\_\_

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Challenge Question ★

If  $k = 9$ , find the value of  $2k + 3k =$  \_\_\_\_\_