

Substitution into Algebraic Expressions

Name: _____

Date: _____

Instructions: Substitute the given values into each expression and calculate the answer. Show your working.

Section A: Single Variable

If $x = 5$, find the value of:

1. $3x + 7$

Answer: _____

2. $2x - 4$

Answer: _____

3. $x^2 + 6$

Answer: _____

4. $20 - x$

Answer: _____

5. $4x \div 2$

Answer: _____

6. $x^2 - 2x$

Answer: _____

Section B: Two Variables

If $a = 3$ and $b = 4$, find the value of:

7. $a + b$

Answer: _____

8. $5a - b$

Answer: _____

9. ab

Answer: _____

10. $2a + 3b$

Answer: _____

11. $a^2 + b^2$

Answer: _____

12. $b^2 - a$

Answer: _____

Section C: Mixed Challenge

If $m = 6$, $n = 2$, and $p = 10$, find the value of:

13. $m + n + p$

Answer: _____

14. $p - m + n$

Answer: _____

15. $3m - 2n$

Answer: _____

16. $mn + p$

Answer: _____

17. $(m + n)p$

Answer: _____

18. $m^2 \div n$

Answer: _____