Evaluating Expressions – Worksheet

Evaluating Expressions
To **evaluate** an expression, substitute the given value for the variable and use the **order of operations (PEMDAS)**.

Example
Evaluate: $4x + 7 \quad \text{when } x = 3$

Step 1: Substitute 3 for x.
$4x + 7 \quad \text{when } x = 3$

Step 2: Multiply.
$4(3) + 7$

Step 3: Add.
$12 + 7$

Answer: 19

Evaluate Each Expression

1. $3x + 5$ when $x = 4$

Expression: _____ Answer: _____

2. $6y - 8$ when $y = 5$

Expression: _____ Answer: _____

3. $2n + 9$ when $n = 7$

Expression: _____ Answer: _____

4. $5m - 6$ when $m = 8$

Expression: _____ Answer: _____

5. $4a^2 + 3$ when $a = 2$

Expression: _____ Answer: _____

6. $3b^2 - 4$ when $b = 5$

Expression: _____ Answer: _____

7. $x^2 + 12$ when $x = 6$

Expression: _____ Answer: _____

8. $8p - 7$ when $p = 9$

Expression: _____ Answer: _____

9. $2k^2 + 10$ when $k = 4$

Expression: _____ Answer: _____

10. $7r + 11$ when $r = 6$

Answer: _____

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