Algebraic Expressions with Subtraction and Multiplication

Name: _____ Date: _____

Part A: Writing Expressions

Write an algebraic expression for each statement. Use the letter given in brackets.

1. Multiply n by 5, then subtract 3 (use n): _____
2. Subtract 8 from x, then multiply by 2 (use x): _____
3. 7 times p, minus 12 (use p): _____
4. Take away 15 from m, then multiply the result by 4 (use m):
   _____
5. 6 multiplied by y, then subtract 20 (use y): _____

Part B: Evaluating Expressions

Find the value of each expression when the given value is substituted.

6. $3n - 7$ when $n = 5$
   Answer: _____
7. $8x - 10$ when $x = 4$
   Answer: _____
8. $2(a - 6)$ when $a = 12$
   Answer: _____
9. $5t - 18$ when $t = 7$
   Answer: _____
10. $4(b - 9)$ when $b = 15$
    Answer: _____

Part C: Challenge Problems

Solve these problems using algebraic expressions.

11. If $6m - 14 = 22$, what is the value of m?
    m = _____
12. Write an expression for: "Subtract 11 from k, then multiply by 3"
    Expression: _____

Evaluate when $k = 20$: _____