Lesson 9.1 Practice: Variables and Expressions

School Launch · Pre-Algebra · Unit 9: Variables and Expressions · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Evaluate $4x + 3$ when $x = 2$. EASY

2. Write an expression for "6 more than 2 times a number n." Then evaluate it for $n = 3$. EASY

3. Evaluate $6x + 7$ when $x = 3$. EASY

4. Write an expression for "the product of 5 and the sum of a number n and 9." Then evaluate it for $n = 6$. MEDIUM

5. Evaluate $x^2 - 5x + 9$ when $x = -4$. MEDIUM

6. Write an expression for "6 less than twice a number n." Then evaluate it for $n = 5$. MEDIUM

7. Evaluate $x^2 - 6x + 7$ when $x = 7$. MEDIUM

8. Write an expression for "the product of 9 and the sum of a number n and 5." Then evaluate it for $n = 6$. HARD

9. Evaluate $\frac{4x^2 - y}{2} + xy$ when $x = -1$ and $y = -5$. HARD

10. Write an expression for "the product of 5 and the sum of a number n and 2." Then evaluate it for $n = 3$. HARD