Lesson 1.5 Practice: Translating Words into Algebra

School Launch · Algebra I · Unit 1: Foundations: Real Numbers 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. Write an algebraic expression for “8 more than 6 times a number n.” EASY

2. Write an algebraic expression for “7 more than 6 times a number n.” EASY

3. Write an algebraic expression for “9 more than 5 times a number n.” EASY

4. Write an algebraic expression for “the quotient of a number n and 2, decreased by 3.” MEDIUM

5. Write an algebraic expression for “the quotient of a number n and 4, decreased by 6.” MEDIUM

6. Write an algebraic expression for “the quotient of a number n and 4, decreased by 10.” MEDIUM

7. Write an algebraic expression for “the quotient of a number n and 5, decreased by 4.” MEDIUM

8. Write an algebraic expression for “4 times the difference of a number n and 10, increased by the square of n.” HARD

9. Write an algebraic expression for “6 times the difference of a number n and 5, increased by the square of n.” HARD

10. Write an algebraic expression for “5 times the difference of a number n and 5, increased by the square of n.” HARD