

Name: \_\_\_\_\_ Date: \_\_\_\_\_

For problems 1 – 5, translate the English phrase into an algebraic expression. Let “x” represent “a number”.

1. The sum of twice a number and eight
2. Five less than a number squared
3. The quotient of eight and a number
4. The product of five and one more than a number
5. The difference of nine and the cube of a number

For problems 6 - 10, translate the algebraic expression into an English phrase or equation. You must use either “sum”, “difference”, “product”, or “quotient” in each translation. Let x = “a number”

Example:  $5 + x$  translates to “the sum of five and a number”

6.  $\frac{x}{6}$

7.  $3x + 2$

8.  $2x - 5$

9.  $3x = 12$

10.  $5x^2 = x - 1$