

**Skill: Equations; Expressions With Exponents****Investigation 2**

Say It With Symbols

Solve each equation for the indicated variable.

1.  $8z - 7 = 3z - 7 + 5z$

2.  $4s - 12 = -5s + 51$

3.  $6 - 4d = 16 - 9d$

4.  $4g + 7 = 5g - 1 - g$

Find an equivalent expression.

5.  $a^1 \cdot a^2$

6.  $-z^3 \cdot z^9$

7.  $5x^2 \cdot x^6 \cdot x^3$

Simplify each expression.

8.  $\frac{7^5}{7^3}$

9.  $\frac{b^{12}}{b^4}$

10.  $\frac{g^9}{g^{15}}$