

**PRACTICE PROBLEMS:
EXPONENTS**

1. Specify the base and exponent.

a. 3^4

b. $(-3)^4$

c. -3^4

2. Write the following in exponential notation.

a. $15 \times 15 \times 15$

b. $7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$

c. $-9 \cdot -9$

d. $(-10)(-10)(-10)(-10)(-10)(-10)$

3. Simplify.

a. -4^2

b. $(-4)^2$

c. 4^2

d. $-(4)^2$

e. $-(-4)^2$