Name _____ Date _____ Period _____

Lesson 6-3 · Apply Day

Reinforce Understanding

Finding the Value of a Power

I can write and evaluate numbers in exponent form using a base and a power.

Worked model

Find the value of 3 to the 4th power.

1. Name the parts. Base = 3, exponent = 4
2. Write the expanded form. 3 × 3 × 3 × 3
3. Multiply in order. 3 × 3 = 9, then 9 × 3 = 27, then 27 × 3 = 81
4. State the value. 3 to the 4th power = 81

Answer: The value of 3 to the 4th power is 81, not 3 × 4.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. (Lesson 6.1) How many groups of 1/4 fit in 2/3?

Complete each step, then write the final answer.

1/4 Bar Model

1. Keep the first number: ___.
2. Use the reciprocal of 1/4: ___.
3. Multiply and simplify: ___.

Answer: _____

2. (Lesson 6.1) How many groups of 1/5 fit in 3/4?

Complete each step, then write the final answer.

1/4 Bar Model

1. Keep the first number: ___.
2. Use the reciprocal of 1/5: ___.
3. Multiply and simplify: ___.

Answer: _____

3. (Lesson 6.1) How many groups of 1/6 fit in 4/5?

Complete each step, then write the final answer.

1/4 Bar Model

1. Keep the first number: ___.
2. Use the reciprocal of 1/6: ___.
3. Multiply and simplify: ___.

Answer: _____