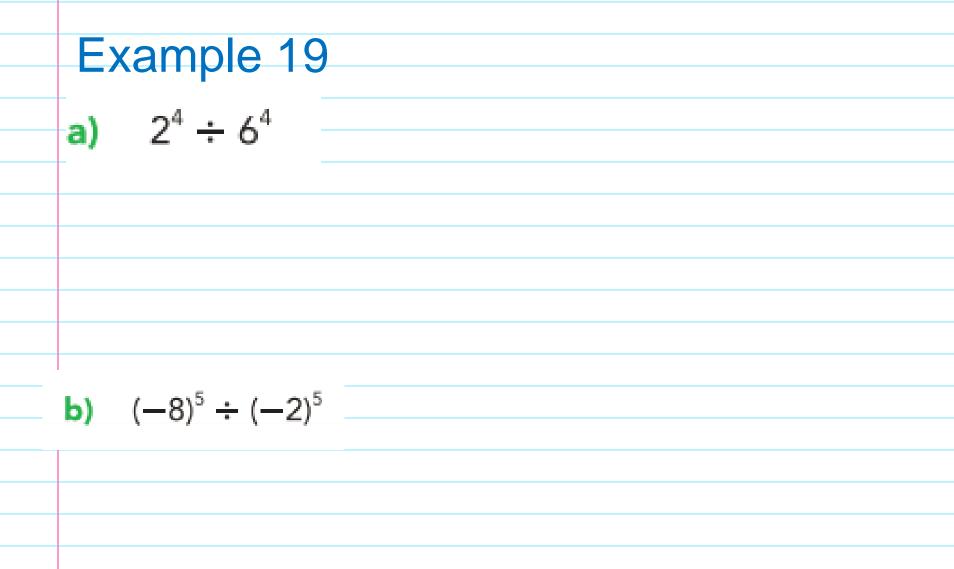
Objective

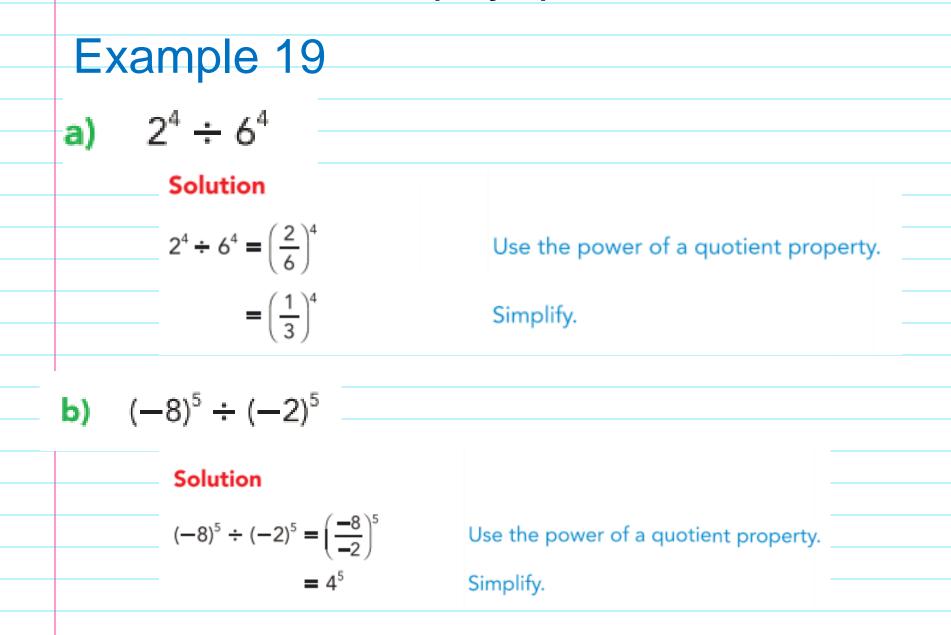
\*Understand the power of a product property

\*Understand the power of quotient property

\*Use properties of exponents to simplify expressions

- Common Core State Standards 8.EE.1
- Mathematical Practices 4. Model mathematics. 5. Use tools strategically. 6. Attend to precision.

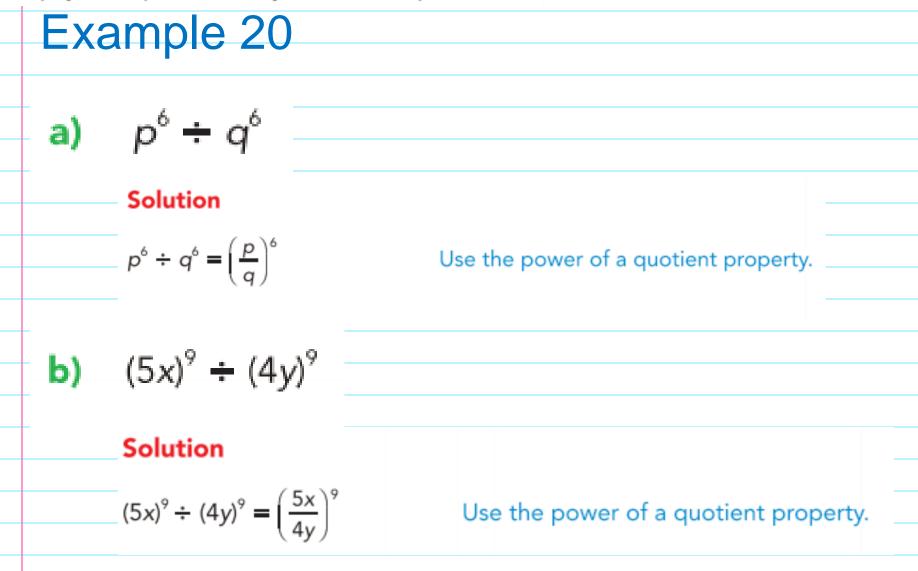


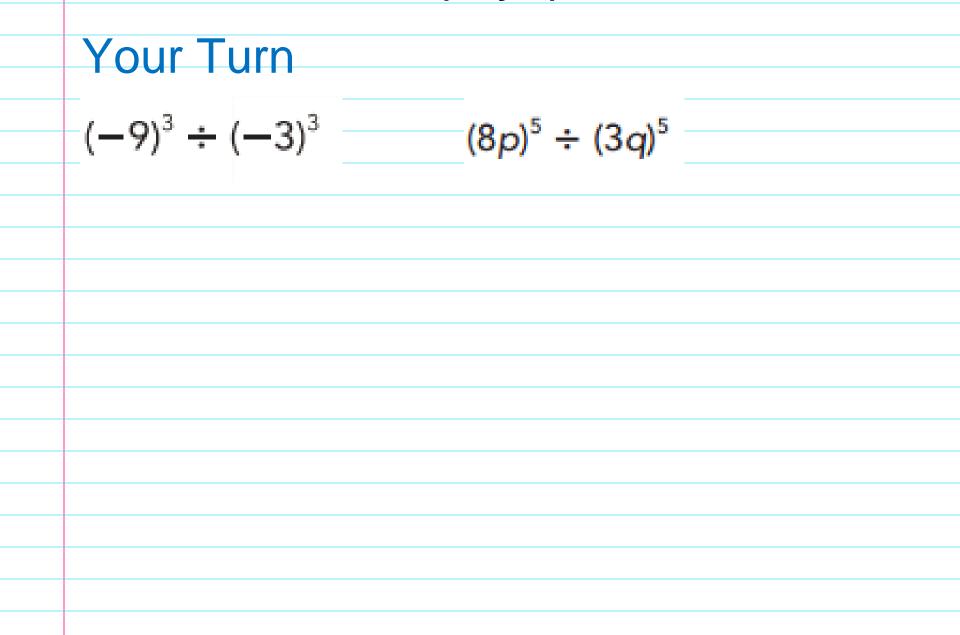


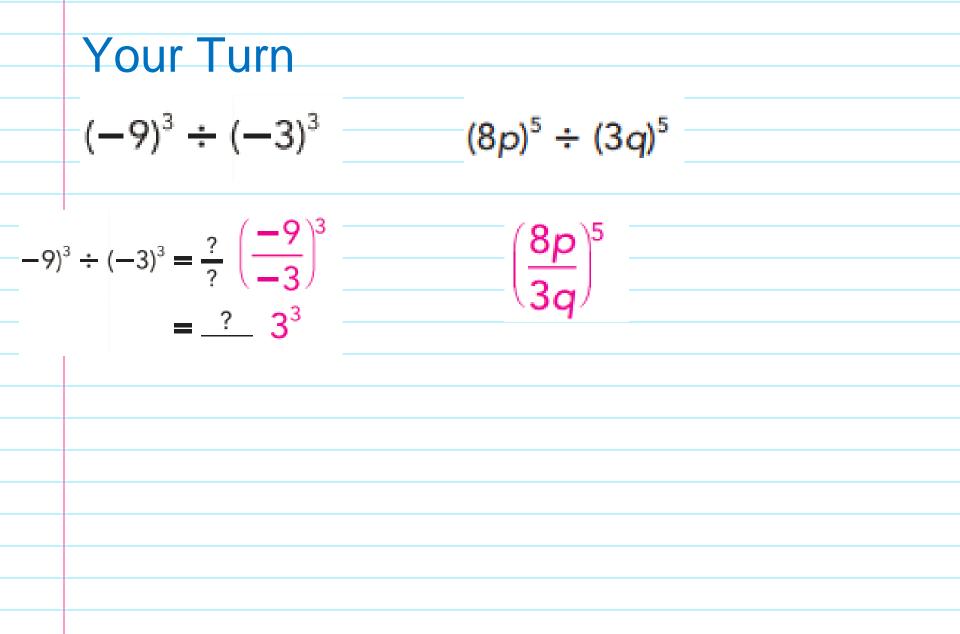
Simplify each expression. Write your answer in exponential notation.

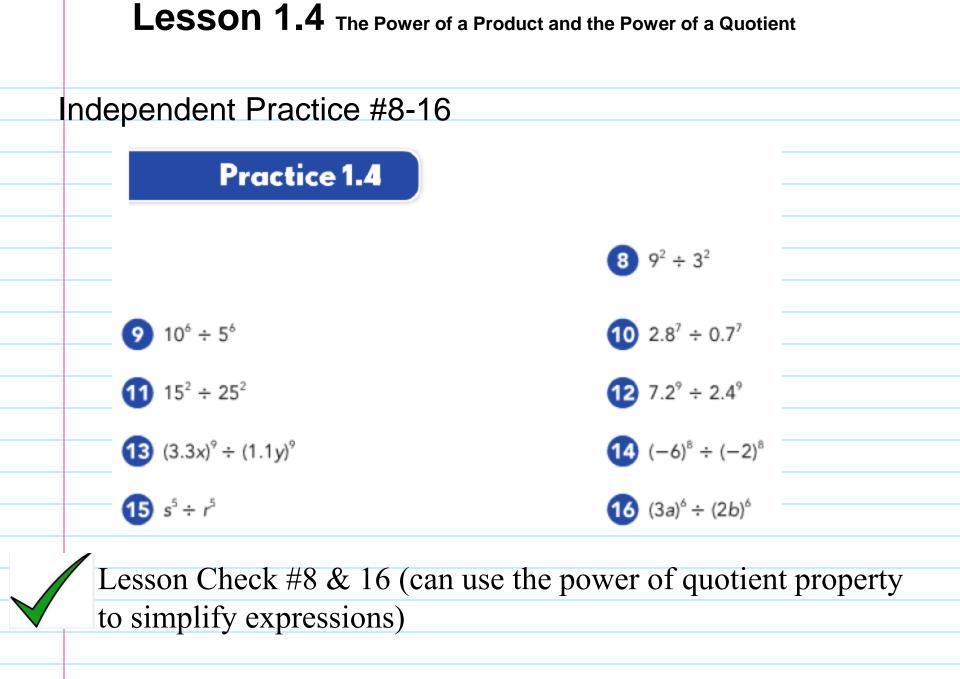
**Example 20** a)  $p^{\circ} \div q^{\circ}$  **b)**  $(5x)^9 \div (4y)^9$ 

Simplify each expression. Write your answer in exponential notation.









#### **Lesson 1.3 Powers of Powers**

#### **Understanding of Learning**

Lesson 1.4 The Power of a Product and the Power of a Quotient



#### Ticket Out the Door

Using algebraic notation, state the power of a product property and the power of a quotient property.