

Name _____



Simplify Using Laws

Directions: Rewrite each expression as repeated multiplication when it helps. Then simplify using the correct law of exponents.

1. Expression: $2^3 \times 2^2$

Repeated multiplication:

Simplified:

2. Expression: $5^5 \div 5^2$

Repeated multiplication:

Simplified:

3. Expression: $(4^2)^3$

Repeated multiplication:

Simplified:

4. Expression: $(3 \times 6)^2$

Repeated multiplication:

Simplified:

5. Expression: $(20 \div 5)^2$

Repeated multiplication:

Simplified:

6. Expression: $8^2 \times 8^4$

Repeated multiplication:

Simplified:

7. Expression: $(7^3)^2$

Repeated multiplication:

Simplified:

8. Expression: $10^6 \div 10^4$

Repeated multiplication:

Simplified: