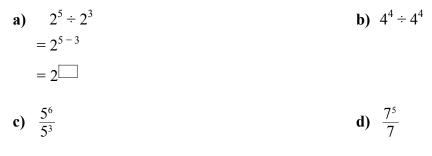
7.1 Warm Up

1. Write each expression as a single power. Use exponent laws.

a)
$$2^3 \times 2^4$$

 $= 2^{3+4}$
 $= 2^{\Box}$
c) $4^4 \times 4^4$
b) $5^2 \times 5$
d) $10^2 \times 10^3$

2. Write each expression as a single power. Use exponent laws.



Exponent laws:

 $a^{m} \times a^{n} = a^{m+n} \qquad a^{m} \div a^{n} = a^{m-n}$ $(a^{m})^{n} = a^{mn} \qquad (a \times b)^{m} = a^{m} \times b^{m}$ $\left(\frac{a}{b}\right)^{n} = \frac{a^{n}}{b^{n}} \qquad a^{0} = 1, a \neq 0$