Sec. 1.4 Laws of Exponents (Part A Core)

1. Write each product as a single power.

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

b)
$$5^0 \times 5^0$$

a)
$$4^3 \times 4^2$$
 b) $5^0 \times 5^0$ **c)** $(-2)^2 \times (-2)^4$

d)
$$-6^3 \times 6$$

e)
$$(-7)^0 \times (-7)^2$$

d)
$$-6^3 \times 6^1$$
 e) $(-7)^0 \times (-7)^2$ **f)** $(-9)^6 \times (-9)^3$

2. Write each quotient as a single power.

a)
$$8^7 \div 8^5$$

b)
$$10^4 \div 10^0$$

a)
$$8^7 \div 8^5$$
 b) $10^4 \div 10^0$ **c)** $(-1)^6 \div (-1)^3$

d)
$$\frac{-3^4}{3^4}$$

e)
$$\frac{(-9)^{10}}{(-9)^5}$$

f)
$$2^3 \times 2^6 \div 2^9$$

3. Express as a single power (if you can), then evaluate.

a)
$$2^0 \times 2 + 2^3$$

b)
$$(-5)^8 \div (-5)^6 \times (-5)$$

4.	Identify.	then	correct any	errors i	in	these	answers.
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a)
$$5^3 \times 5^2 = 5^6$$

b)
$$2^3 \times 4^2 = 8^5$$

a)
$$5^3 \times 5^2 = 5^6$$
 b) $2^3 \times 4^2 = 8^5$ **c)** $(-3)^8 \div (-3)^4 = (-3)^4$