Name: Key Class: _____

Practice - Exponents 1

1) Write each as a single power. Then, evaluate each power.

a) $4^3 \times 4^4$ $= 4^{3+4}$
$= 4^7$ OR 16,384

b) $7^2 \times 7^4$ $= 7^{2+4}$
$= 7^6$ OR 117,649

c) $(-3)^5 \times (-3)^2$ $= (-3)^7$
$= -2187$

d) $5^2 \times 5^3$ $= 5^5$
$= 3125$

e) $(-6)^3 \times (-6)^3$ $= (-6)^6$
$= 46,656$

f) 8×8^2 $= 8^3$
$= 512$

2) Write each as a single power. Then, evaluate each power.

a) $5^5 \div 5^3$ $= 5^{5-3}$
$= 5^2$ OR 25

b) $3^8 \div 3^4$ $= 3^{8-4}$
$= 3^4$ OR 81

c) $(-4)^6 \div (-4)^2$ $= (-4)^4$
$= 256$

d) $7^4 \div 7$ $= 7^3$
$= 343$

e) $(-8)^8 \div (-8)^6$ $= (-8)^2$
$= 64$

f) $(-2)^6 \div (-2)^5$ $= (-2)^1$
$= -2$

Review of Product Law & Quotient Law:   

Outcome: N1 - Know the Parts of a Power