Math 8 Name_____

Date_____

0.2 Multiplying & Dividing Integers

When multiplying or dividing integers:

Two of the same sign = Positive

Opposite signs = negative

Ex. Solve

a) $3 \times (-4) =$ -12

b) $-15 \div (-5) =$ 3

c) $-6 \cdot 5 =$ -30 (· = times)

d) $\frac{42}{-6} =$ -7

e) $-2(-7) =$ 14 (multiply) "juxtaposition"

f) $-24/6 =$ -4

Ex. Solve

a) $(-3)^2$ (power, base, exponent) $= (-3) \cdot (-3) = 9$ "squared"

b) $-3^2 = -3 \cdot 3 = -9$

$5^3 = 5 \cdot 5 \cdot 5 = 125$

c) $-2^3 = -2 \cdot 2 \cdot 2 = -8$

d) $(-2)^3 = (-2) \cdot (-2) \cdot (-2) = -8$

odd # negatives = negative

$(-2)^4 = (-2)(-2)(-2)(-2) = 16$

even # negatives = positive

$-2^4 = -16$

Practice Worksheets 0.2 (on sheet)