Warm-Up	October 11,2016		
Repeated multiplication	Base	Power	Evaluate
A6 x -6 x -6	-6	(-6)3	-216
B (-2) (-2)(-2)	-2	-(-2)3	8
C1 × 1 × 1 × 1		-(1)	-1

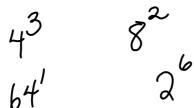
2. Write as a repeated multiplication and evaluate

A.
$$-(-5)^4 = -625$$
B. $-3^6 = -729$
C. $(-4)^3$

$$-(-5x-5x-5x-5) - (3x3x3x3x3x3x3)$$

$$-4x-4x-4$$

3. Write the following as a power: 64



4. Write as a repeated multiplication and evaluate

Power

Repeated Evaluate



OIXOIXO

1000

b) 10⁵

IDXIOXIOXIOXIO

IDO DOD

$$|\vec{D}^{b} = |000 \ 000 \ |0^{2} = |000 \ |0^{0} = |000 \ |0^{0} = |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000 \ |000$$

Section 2.2 Powers of Ten and Zero Exponents

Zero Exponent Law

power with an integer base, other than 0, and an exponent of 0 is equal to 1

Evaluate
$$a$$
) $(-2)^{0}$ b) $-(-4)^{0}$ c) -2^{0}

Power	Base	Evaluate	
a) -5°	5	-)	
b) (-2)°	-2	1	
c) -(-62)°	-62	-	
d) -(5) ⁰	5	_	

three thousand two hundred sixty two

standard

form

$$3 262 = 10^{3}$$

$$100 = 10^{3}$$

$$10 = 10^{4}$$

$$10 = 10^{4}$$

$$10 = 10^{4}$$

$$10 = 10^{4}$$

$$10 = 10^{4}$$
Expanded

form
$$3 000 + 200 + 60 + 2$$
Expanded
form
$$3 \times 10^{3} + (2 \times 10^{2}) + (6 \times 10^{4}) + (2 \times 10^{4})$$
Power of

Write 96 713 as a power of 10

Expanded form

Power of
$$(9 \times 10^4) + (6 \times 10^3) + (7 \times 10^3) + (1 \times 10$$

Write using powers of 10

b) 600

b×10

Write in standard form

$$3x10^{2} + 6x10^{4} + 3x0^{0} + 8x0^{6}$$

$$8x10^{6} + 6x10^{4} + 3x10^{2} + 3x10^{6}$$

Evaluate