September 19, 2011

Warm-Up: $-5 \cdot -12$

Multiply.

1. $7 \bullet 2$ 14
2. $9(-7)$ -63
3. $-6(8)$ -48
4. $-8(-10)$ 80
5. $6 \bullet (-5)$ -30
6. $-5 \bullet (-12)$ 60

9/19 - Multiplying Integers - Day 2

Review:

$+ \cdot + = +$

$+ \cdot - = -$

$- \cdot + = -$

$- \cdot - = +$

Discuss with your partner:

What if there are
3 integers rather than 2?

$-3 \cdot 4 \cdot -2$

$= 24$

Compute:

even # of negatives: positive
odd # of negatives: negative

$12 \bullet (-1) \bullet (-2)$

$= 24$

$-4 \bullet 8 \bullet 3$

$= -96$

$-10(-3)(-7)$

$= -210$

What are "exponents"?

2^3 ← exponent
2^3 ← base

What does the exponent tell you?

How many times you multiply the base by itself.

2^3
$= 2 \cdot 2 \cdot 2$
$= 8$

Compute each:

$(-2)^3 = (-2)(-2)(-2) = -8$

$5^2 = 5 \cdot 5 = 25$

$(-5)^2 = (-5)(-5) = 25$

Problems with both multiply and exponents

Exponents first!

$9 \bullet (-5)^2$

$= 9 \cdot 25$

$= 225$

$(-2)^3 \bullet (-6)$

$= -8 \cdot (-6)$

$= 48$

Homework:

textbook: page 26
#1-39 all

due Tuesday