

10-2-17

Aim: SWBAT review.

HW: **Test Tommorrow**

Practice Integer Operations

- » IXL.com - requires a subscription
- » aaamath.com - free

Do Now: Correct hw

Textbook Pg. 79 # 26 - 30

$$\textcircled{26} \quad 2 + 3(-4) \div 6$$

$$2 + (-12) \div 6$$

$$2 + (-2)$$

$$0$$

$$\textcircled{27} \quad 5 + 6 \cdot 8 \div 4 - 3$$

$$5 + 48 \div 4 - 3$$

$$5 + 12 - 3$$

$$17 - 3$$

$$14$$

$$\textcircled{28} \quad 12 \div 3 + 3 \cdot (-4)$$

$$4 + 3 \cdot (-4)$$

$$4 + (-12)$$

$$-8$$

$$\textcircled{29} \quad 16 + 8(-2) - 4$$

$$16 + (-16) - 4$$

$$0 - 4$$

$$-4$$

$$\textcircled{30} \quad 7 - 10 \div 2$$

$$7 - 5$$

$$2$$

$$\textcircled{31} \quad 5 \cdot 6 - 2(6) \div 4$$

$$30 - 2(6) \div 4$$

$$30 - 12 \div 4$$

$$30 - 3$$

$$27$$

$$\textcircled{32} \quad -14 - 6 \div 2 + 7$$

$$-14 - 3 + 7$$

$$-17 + 7$$

$$-10$$

$$\textcircled{33} \quad 7 \cdot 3 - 12 \div 6$$

$$21 - 12 \div 6$$

$$21 - 2$$

$$19$$

Adding and Subtracting Integers

- Clear double signs and Rewrite the expression
- Isolate Terms (draw a picture if it helps)

Same Signs: Add and Keep

Different Signs: Subtract and Think

$7 + (-2)$	$-7 + 2$	$-7 - 2$	$-7 - (-2)$	$7 - (-2)$	$7 - 2$
5	-5	-9	-5	9	5

$15 + (-3)$	$-15 + 3$	$-15 - 3$	$-15 - (-3)$	$15 - (-3)$	$15 - 3$
12	-12	-18	-12	18	12

Positive, Negative, or Zero?

$$-673 - (-1000)$$

Positive

$$542 + (-2000)$$

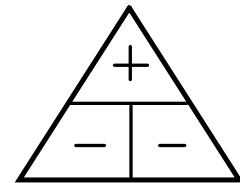
Negative

$$-118 - (26)$$

Negative

Multiplying and Dividing Integers

- Even number of negative signs - **Positive**
- Odd number of negative signs - **Negative**



Same Signs: Positive

Different Signs: Negative

$$7(-2)$$

$$-14$$

$$-7(2)$$

$$-14$$

$$(-7)(-2)$$

$$14$$

$$(-7)(-2)(-1)$$

$$-14$$

$$7(-2)(-1)$$

$$14$$

$$-8 \div 4$$

$$-2$$

$$-12 \div -6$$

$$2$$

$$42 \div -2$$

$$21$$

Positive, Negative, or Zero?

$$(-3)^4$$

Positive

$$(-3)^{123}$$

Negative

$$(-3)^{76}$$

Positive

$$(-3)^5 \times (-3)^{18}$$

Negative

$$(-1000)^{250}$$

Positive

$$(-2000)^{125}$$

Negative

$$(-1001)^{37}$$

Negative

Important Vocabulary

- Name the additive inverse for each.

5	11	-18	-99	0
-5	-11	18	99	0

- Name the multiplicative inverse for each.

5	$\frac{11}{11}$	$-\frac{18}{18}$	$-\frac{99}{99}$	0
				undefined

- State the absolute value of each.

5	11	-18	-99	0
5	11	18	99	0

- Name 3 numbers that are integers and 3 numbers that are not integers.

Integers: 0, 5, -10

Not Integers: $-\frac{1}{99}$ $-\frac{1}{18}$ $\frac{1}{5}$