9-27-17

Aim: SWBAT apply knowledge of integers to complete contextual word problems.

HW: Test Tuesday

Do Now: Check hw, then Quiz (need pencil)

AIM: SWBAT multiply and divide integers.

DO NOW:
DO NOT COMPUTE!! State whether the answer will be POSITIVE, NEGATIVE or ZERO.

Rules for Adding/Subtracting

Same signs - Add & Keep their sign

Different signs - Subtract & think

Rules for Multiplying/Dividing two Integers

Same signs - positive

Different signs - Negative

1) $(-19)(-10)$ positive

2) $-27 + 96$ positive

3) $-24 - (-19)$ $-24+19$ Negative

4) $-80 + 80$ zero

5) $-152 \div 4$ Neg.

6) $53 + 9$ Positive

7) $(14)(7)$ Positive

8) $(0)(9)$ Zero

9) $\frac{-16}{-4}$ Positive

10) $32 + -12$ $32-12$ Positive

11) $0 - -5$ Positive

12) $-42 - 50$ Negative

13) $15 - 27$ Neg.

14) $57 - 42$ Positive

15) $(29)(-30)(-20)$ Positive

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

17) $-49 \div -7$ Positive

18) $(-4)^{23}$ Negative

19) $-7 + 7$ zero

20) $(-5)^{10}$ Positive

CLASSWORK:

Evaluate.

1) $5(-7)$ -35

2) $-6 \bullet -3$ 18

3) $-4 \bullet 8$ -32

4) $-91 \div -7$ 13

$7\overline{)91}$ $-7\downarrow$ 21

5) $240 \div -15$ -16

6) $\frac{-96}{3}$ -32

7) $(-5)(-3)(7)$ $(15)(7)$ 105

8) $(7)(4)(-2)(-1)$ $(28)(2)$ 56

Positive, Negative, or Zero?

$5\frac{1}{3} - (-11.7)$ → $+$

$5\frac{1}{3} + 11.7$

Positive

$-3\frac{1}{2} - (-1.75)$ → $+$

$-3\frac{1}{2} + 1.75$

Negative

$\frac{(-1)^3}{(-1)^2}$ → $\frac{-}{+}$ → Negative

(3 ← odd, 2 ← even)

$\frac{27\frac{1}{3}}{-5\frac{1}{8}}$ → Negative

$\frac{5}{-5}$ → Neg.

$\frac{3}{3}$ → Positive

$-3\frac{1}{2}$ -6.5

$+$ $-$

91.75 -243

$+$ $-$

$(7\frac{3}{4})(-6\frac{2}{3})$

$+$ $-$

$(-11)(-1{,}000{,}000)$

$+$ $-$

$$\frac{3\frac{3}{4}}{-2\frac{2}{3}}$$

$+$ $-$

$$\frac{0}{2\frac{2}{3}}$$

zero undefined

$$\frac{-3\frac{3}{4}}{0}$$

zero undefined