

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

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

2)  $-27 + 96$   
positive

5)  $-152 \div 4$   
Neg.

6)  $53 + 9$   
Positive

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

10)  $32 - 12$   
Positive

13)  $15 - 27$   
Neg.

14)  $57 - 42$   
Positive

17)  $-49 \div -7$   
Positive

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

Rules for Multiplying/Dividing two Integers

Same signs - positive

Different signs - Negative



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

4)  $-80 + 80$   
zero

7)  $(14)(7)$   
Positive

8)  $(0)(9)$   
zero

11)  $0 - 5$   
Positive

12)  $-42 - 50$   
Negative

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

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

19)  $-7 + 7$   
zero

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

CLASSWORK:



Evaluate.

1)  $5(-7)$   
-35

2)  $-6 \cdot -3$   
18

3)  $-4 \cdot 8$   
-32

4)  $-91 \div -7$   
 $\frac{13}{7 \overline{)91} \begin{array}{r} -7 \\ \hline 21 \end{array}}$  13

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?

$$5\frac{1}{3} - (-11.7)$$

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

Positive

$$-3\frac{1}{2} - (-1.75)$$

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

Negative

$$\frac{(-1)^3 \leftarrow \text{odd}}{(-1)^2 \leftarrow \text{even}} \rightarrow \frac{-}{+} \rightarrow \text{Negative}$$

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

$$\frac{-5}{5} \rightarrow \text{Neg.}$$

$$\frac{3}{3} \rightarrow \text{Positive}$$

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

$$\boxed{91.75 - 243}$$

+ -

+ -

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

$$(-11)\left(-1,000,000\right)$$

+ -

+ - +

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

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

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

+ -

zero undefined

zero undefined