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)

HOMEWORK: **Evaluate.**

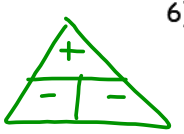
1) $-63 \div 7$ -9

2) $-54 \div -9$ 6

3) $16 \div 2$ 8

4) $-36 \div -6$ 6

5) $-9 \bullet -13$ 117



6) $4 \bullet -23$ -92

7) $-5(-12)$ 60

* 8) $(-13)(7)$ -91

9) $-3(2)(7)$ -42

10) $-3(4)(-7)$ 84

11) $(-7)(-8)(5)$ 280

12) $(-2)(-4)(-5)$ -40

Read each word problem, write a number sentence and solve.

13) A shoreline is changing -3 cm each year due to erosion. What will the change in the shoreline be in 6 years?

$(-3)(6) = -18$

14) The temperature during a 5-day period in Center City were -19°F, -14°F, -8°F, 13°F and 18°F. What was the average temperature for those 5 days?

mean

$$\frac{(-19)+(-14)+(-8)+(13)+(18)}{5} = \frac{-10}{5} = -2$$

15) The price of a stock rose \$2 yesterday. If the stock continues to change at the same rate each day, what will be the total change over 10 days?

$2(10) = 20$

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

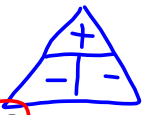
Same signs - Add and keep

Different signs - Subtract and 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 ÷ 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

12) −42 − 50

13) 15 − 27

14) 57 − 42

15) (29)(−30)(−20) Positive

16) −4 − (−4)

17) −49 ÷ −7 Positive

18) $(-4)^{23}$ odd # Neg.

19) −7 + 7

20) $(-5)^{10}$ even positive

CLASSWORK:

Evaluate.

1) 5(−7) −35

2) −6 • −3 18

3) −4 • 8 −32

4) −91 ÷ −7 13

$7\overline{)91}$ → 13, −7, 21

5) 240 ÷ −15 −16

6) $\frac{-96}{3}$ −32

7) (−5)(−3)(7) → (15)(7) 105

8) (7)(4)(−2)(−1) → (28)(2) 56