

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) $16 \div 2$

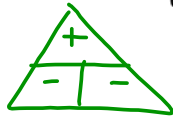
8

4) $-36 \div -6$

6

5) $-9 \cdot -13$

117



6) $4 \cdot -23$

-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?

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

- 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) $-152 \div 4$
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) $0 - -5$

12) $-42 - 50$

13) $15 - 27$

14) $57 - 42$

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

16) $-4 - (-4)$

17) $-49 \div -7$
Positive

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

19) $-7 + 7$

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

CLASSWORK:



Evaluate.

1) $5(-7)$
-35

2) $-6 \cdot -3$
18

3) $-4 \cdot 8$
-32

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