

1. Find the largest and smallest of the following numbers:  $-\frac{15}{17}$ ,  $-1$ ,  $-\frac{3}{119}$ ,  $0.2$ ,  $1$ ,  $0$
2. The teacher wrote a few problems with decimals on the board, but Henry erased all the decimal points. Put the decimal points back into the expressions to make them correct.

$$32 + 18 = 5$$

$$63 - 027 = 603$$

3. Compute:

$$3 + 2 \cdot (-6 - (-9)) =$$

$$1 - (5 + (-4)) =$$

$$|(-5) + 4| =$$

$$|(-6) + (-9)| =$$

$$|5 + (-4)| =$$

$$|-2 - 6| =$$

4. Write the algebraic expression for the following problems and evaluate it for given values of variables:
  - a. There are  $n$  pears in the basket, which is  $\frac{3}{7}$  of all fruits in the basket. How many fruits are there in the basket? ( $n = 21$ )
  - b. There is  $x$  candy in a box. Chocolate candies are  $\frac{4}{9}$  of all candies. How many not chocolate candies are there in the box? ( $x = 36$ )

5. The volume of water increases by  $\frac{1}{11}$  when it freezes. By how much the volume of ice does decrease when it melts?

6. Solve the inequality:

$$2(4x - 3) \leq 5x + 30$$

7. Rewrite the following expressions without parenthesis (use the distributive properties):

Example:

$$-3(x - y) = (-3) \cdot x + (-3) \cdot (-y) = -3x + 3$$

- a.  $-(a - b)$
- b.  $-3(c + d)$
- c.  $2(-x + y)$
- d.  $x(-x + 2y + 1)$
- e.  $-y(x - y + 3)$

8. Using ruler draw a triangle on a graphing paper, draw three medians in it. **Try constructing the medians as shown here** <https://www.mathopenref.com/constmedian.html> Did all three of your medians intersect in one point? Cut your triangle, try to balance it on a sharpened pencil at the point of intersection of the medians. It should balance!

Bring it to class to show

