Math 4. Classwork 12.

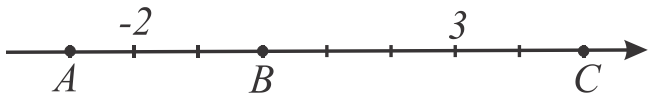
Review.

1. **Divisibility by 3, 9, 5 and 10!!!!!!**

2. **Calculate:**

9 + (–6) =	9 – (–4) =	–9 – (–2) =
–9 + (–8) =	5 · (–4) =	–5 · (–4)=
$\frac{1}{2} + \frac{3}{8} =$	$\frac{1}{2} x \frac{3}{8} =$	$\frac{6}{9} \div \frac{18}{27} =$

3. Write the coordinates of points A, B, and C marked on the number line below:



4. At the party, all kids were given identical gift-bags with fruits. Altogether these bags contained 68 toys and 102 candies. How many kids came to the party? How many toys and candies were in every bag? (hint- find GCF)

5. Jane and Mary are planting flowers. Jane can plant all flowers in 2 hours, Mary can do it in 3 hours. How many hours they need to plant all flowers together?

6. Jane and Mary are doing fall clean up in a backyard. Mary can do the job in 6 hours; together they can do it in 4 hours. How many hours does Jane need to clean up the backyard?

7. Compute using two different methods, first using the distributive property and then just using order of arithmetic operations:

Example:

$$3 \cdot (12 + 8) = 3 \cdot 12 + 3 \cdot 8 = 36 + 24 = 60$$

$$3 \cdot (12 + 8) = 3 \cdot 20 = 60$$

$4 \cdot \left(\frac{1}{2} + \frac{3}{8}\right) =$

$4 \cdot \left(\frac{1}{2} + \frac{3}{8}\right) =$

$\left(\frac{7}{8} - \frac{3}{4}\right) \cdot 2 =$

$\left(\frac{7}{8} - \frac{3}{4}\right) \cdot 2 =$

8. Using the distributive property rewrite the following expressions without parenthesis:

$2 \cdot (2 + x) =$

$\left(\frac{1}{2} - a\right) \cdot 2 =$

$(a + c) \cdot 3 =$

$5x(3 + y) =$

$x(5a + b) =$

$200 \cdot (x + a) =$

9. Compute using the distributive property , factoring out the common factor:

$6 \cdot 65 + 6 \cdot 35 =$

$8 \cdot 2 + 8 \cdot 92 =$

$356 \cdot 73 + 644 \cdot 73 =$

$\frac{1}{2} \cdot 387 + \frac{1}{2} \cdot 613 =$

10. Simplify the following expressions:

$m - (n + m) =$

$-(n - x) - x =$

$p + (-m + k - p) =$

$-a - (m - a + p) =$

$-(m - a) - (k + a) =$

$m + (k - a - m) =$

$m - (a + m) - (-a - m) =$

$a - (a - b) =$

11. Solve the following equation:

$\frac{1}{3}x + 12 = x$

$6x - 14 = -5x - 3$

$-(a + 4) - 19 = 7$

$2\frac{1}{3} - \left(y - \frac{5}{12}\right) = 1\frac{3}{4}$

1. ABCD is a rectangle. Find the coordinates of point D and draw the rectangle.

a. A(-9; 2), B(-9; 4), C(-3; 4)
b. A(-6; 0), B(-6;-7), C(0; -7)