

1. Fill the empty spaces in the table:

c	b	b · c
$\frac{3}{8}$	$\frac{3}{4}$	
$\frac{3}{4}$		$\frac{9}{21}$
	$\frac{2}{3}$	$\frac{16}{21}$

c	b	b:c
$\frac{5}{6}$	$\frac{4}{9}$	
$\frac{7}{10}$		$\frac{1}{2}$
	$\frac{5}{4}$	$\frac{2}{5}$

2. Find the value of the expressions with given values of variables:
- $90 - b: 9$, if $b = 0; 9; 810$.
 - $a + 52$, if $a = 0; 18; 49$.
 - $s(15 - s)$, if $s = 5; 16; 25$.
 - $240:d - 4(m + n)$, if $d = 1, m = 15, n = 5$
3. Each floor of a residential building has f two-bedroom apartments and g three-bedroom apartments. The building has 5 floors. How many apartments are there in the building? Write the expression, then solve the problem for $f = 3$ and $g = 4$
4. Create a problem, which can be solved by the following expressions, give some values to the variables and solve your problems quantitatively:
- $x - y$
 - $c + 3c$
 - $k: 9$
 - $2m + 2n$
5. Evaluate:

$$3 + (-2);$$

$$3 + (+2);$$

$$-3 - (-2);$$

$$3 - (+2);$$

$$-3 + (-2);$$

$$-3 + (+2);$$

$$3 - (-2);$$

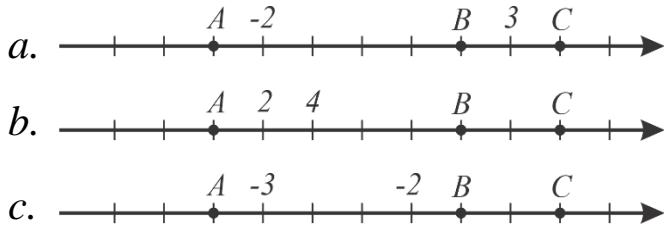
$$-3 - (+2);$$

$$-3 + (+3);$$

6. Positive or negative number will be the product of

- a) Two negative and one positive numbers.
- b) One negative and two positive numbers
- c) Three negative numbers.

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



8. Write without parenthesis:

Example:

$$-(-3) = 3; \quad -(+7) = -7$$

- a. $- (+11)$; b. $- (+9)$; c. $- (-7)$;
d. $- (-10)$; e. $- (+15)$; f. $- (-20)$

Example:

$$-(-(-(-11))) = 11; \quad -(-(+7)) = +7$$

- a. $-(-(+1))$; b. $-(-(-(+8)))$; c. $\underbrace{-(-(-\dots (+3)\dots))}_{10 \text{ "- " signs}}$;
d. $-(-(-2))$; e. $-(-(-(-5)))$; f. $\underbrace{-(-(-\dots (+3)\dots))}_{15 \text{ "- " signs}}$;

9. Write the number in parenthesis so the equality holds:

- a. $-(...)$ = -11; b. $-(...)$ = 11;
- c. $-(...)$ = 86; d. $-(...)$ = -71

10. If b is positive number, $-b$ is _____

11. If b is negative number, $-b$ is _____