

Math 4a. Homework 9.

Problems marked with * are more difficult.



1. Which number should be placed instead of x to get an equality.

- | | |
|--------------------------|---------------------------|
| a) $25 \cdot x = -25$; | e) $x \cdot (-30) = 30$; |
| b) $x : 1 = -7$; | f) $x : (-8) = 0$; |
| c) $x \cdot (-18) = 0$; | g) $-19 \cdot x = 19$; |
| d) $-26 : x = 26$; | h) $x : (-1) = -1$? |

2. Compute (please, copy each problem into your notebook

Example: $6 - 8 = -2$)

$6 - 8$;	$-6 + 8$;	$-8 + (-6)$;
$-12 + 4$;	$-4 - 2$;	$21 - 28$;
$-3 - 6$;	$9 + (-8)$;	$-5 - (-7)$;
$-7 + 10$;	$4 - 7$;	$-37 + 21$;
$10 + (-6)$;	$-8 + 2$;	$16 - 9$;
$-9 + 15$;	$10 + (-12)$;	$-23 - 6$;

3. Mary has a cat and a dog. Cat eats a bag of cat food in 21 days and the dog eats a bag of dog food in 15 days. Mary wants to buy food for her animals at the same time. How often Mary should go to the store and how many bags of cat and dog food she should buy at once?

4. Fill the empty cells in the tables:

1)

a	b	$a + b$	$a - b$
$+5\frac{1}{2}$	$+4\frac{1}{2}$		
$-5\frac{1}{2}$	$+4\frac{1}{2}$		
$+5\frac{1}{2}$	$-4\frac{1}{2}$		
$-5\frac{1}{2}$	$-4\frac{1}{2}$		

2)

a	b	$a + b$	$a - b$
$+2\frac{3}{8}$	$+3\frac{1}{4}$		
$-2\frac{3}{8}$	$+3\frac{1}{4}$		
$+2\frac{3}{8}$	$-3\frac{1}{4}$		
$-2\frac{3}{8}$	$-3\frac{1}{4}$		

5. Put +, -, ·, ÷ or parenthesis to make the following statement true.
example: $1\ 1\ 1\ 1 - 1\ 1\ 1 = 1000$

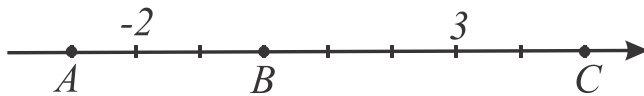
a) $1\ 1\ 1\ 1\ 1\ 1\ 1 = 1000$;

b) $3\ 3\ 3\ 3\ 3\ 3 = 1000$;

c) $5\ 5\ 5\ 5\ 5\ 5 = 1000$;

d) $7\ 7\ 7\ 7\ 7\ 7\ 7 = 1000$;

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



7. Even or odd number are the following products, why do you think so?

a) $11 \cdot 13 \cdot 15 \cdot 17 \cdot 19$;

b) $11 \cdot 12 \cdot 13$;

8. Even or odd number are the following sums:

a) $11 + 13 + 15 + 17 + 19 + 21 + 23 + 25 + 27 + 29$;

b) $11 + 15 + 19 + 23 + 27 + 31 + 35$;

c) $99 + 78 + 97 + 43 + 85 + 64 + 15 + 70$?

9. Big rectangle contains 9 squares. The side of red square is 1 unit; the side of blue square is 7 units. Find sides of all other squares.

