

11-19-18

Aim: SWBAT simplify expressions with rational numbers.

HW: Packet Page 18

Quiz Tomorrow

Do Now: Simplify.

$$(-5x + 8) - (15 + 2x)$$

$$\boxed{-5x} + \boxed{8} - \boxed{15} - \boxed{2x}$$

$$-7x - 7$$

a. $-3x - 7$

b. $-7x - 7$

HOMEWORK

Simplify each expression.

1) $-3(-7x + 5) - 2(3x - 6)$

$21x - 15 - 6x + 12$

$15x - 3$

2) $(-50x + 4) + 3(7x - 25)$

$-50x + 4 + 21x - 75$

$-29x - 71$

3) Find the sum of $5x - 12$ and $14x - 13$.

$[(5x - 12) + (14x - 13)]$

$5x - 12 + 14x - 13$

$19x - 25$

4) Find the difference of $7x + 9$ and $15x - 19$.

$[(7x + 9) - (15x - 19)]$

$7x + 9 - 15x + 19$

$-8x + 28$

Aim: SWBAT simplify expressions with rational numbers.

Do Now: Simplify each expression.

A) $(-5.7x + 8.6) - (15.2 + 2.5x)$

$-5.7x + 8.6 - 15.2 - 2.5x$

$-5.7x - 2.5x = -8.2x$

$8.6 - 15.2 = -6.6$

CLASSWORK:

Simplify each expression.

1) $-0.5 - 0.8x - 2.34 + 2.5x$

$-8.2x - 6.6$

B) $(\frac{3}{4}x - \frac{1}{4}) - (\frac{3}{4}x - \frac{5}{6})$

$\frac{3}{4}x - \frac{1}{4} - \frac{3}{4}x + \frac{5}{6}$

$\frac{3}{4}x - \frac{3}{4}x = 0$

$-\frac{1}{4} + \frac{5}{6} = \frac{7}{12}$

2) $\frac{1}{5}x - \frac{1}{2} + \frac{3}{5}x - \frac{6}{10}$

Simplifying expressions with rational numbers tic tac toe (pg 17)

$\frac{13}{15}x$	$1\frac{1}{2}x - \frac{1}{2}$	$-10.77x + 6.68$
$-\frac{5}{8}x + 1$	$x + 9.3$	$\frac{5}{6}x - \frac{3}{4}$
$-x + 1.1$	$-5.77x + 8.7$	$x - 1.7$

GW #2

- Each person must show all steps of work!!
- You may work together or compete with your partner
- Get work checked by a teacher when you get tic tac toe
- If you finish the whole board, try the challenge question on the index card!



3) $\frac{2}{3}x - \frac{1}{2} + \frac{1}{6}x - \frac{1}{4}$

4) $-2.2 + 3.47y - 1.3 + 2.05y$

5) $-3.72x + 10.2 - 1.5 - 2.05x$

6) $-2.27x + 5.2 + 1.48 - 8.5x$

7) $\frac{7}{10} - \frac{2}{3}x + 0.4 - \frac{1}{3}x$

8) $\frac{6}{5}x - \frac{3}{8} + \frac{3}{8} - \frac{1}{3}x$

9) $(0.2x + 0.8) - (2\frac{1}{2} - \frac{4}{5}x)$

10) $(\frac{1}{8}x + \frac{1}{2}) - (\frac{3}{4}x - \frac{1}{2})$

11) $(\frac{5}{6}x + 1\frac{1}{3}) + (\frac{2}{3}x - 1\frac{5}{6})$

12) $(3.2x + 5.8) - (2\frac{1}{5}x - 3\frac{1}{2})$

Simplifying expressions with rational numbers tic tac toe (pg 17)

$\frac{13}{15}x$	$1\frac{1}{2}x - \frac{1}{2}$	$-10.77x + 6.68$
$-\frac{5}{8}x + 1$	$x + 9.3$	$\frac{5}{6}x - \frac{3}{4}$
$-x + 1.1$	$-5.77x + 8.7$	$x - 1.7$

| Answer Key |

8	11	6
10	12	3
7	5	9

HOMEWORK

Simplify each expression.

1) $-5.31x + 8.3 - 4.2 - 8.07x$

2) $-20.27x - 5.2 + 3.8 + 12.51x$

3) $\frac{7}{10} - \frac{2}{5}x + 0.3 - \frac{1}{5}x$

4) $\frac{9}{12}x - \frac{3}{8} + \frac{3}{8} - \frac{1}{3}x$

5) $(0.4x + 0.3) + \left(\frac{1}{2} - \frac{4}{5}x\right)$

6) $\left(\frac{1}{9}x + \frac{1}{5}\right) - \left(\frac{2}{3}x - \frac{1}{7}\right)$