

11-21-17

Aim: SWBAT simplify expressions with rational numbers.

HW: Finish Classwork

Do Now: Correct hw, then Quiz (pencil and calculator)

HOMEWORK - SIMPLIFYING EXPRESSIONS BY COMBINING LIKE TERMS

Simplify each expression by combining like terms.

Same Signs - Add + keep

Different Signs - Subtract + think

1) $4a + 3a$

$7a$

2) $-9x + 2x$

$-7x$

3) $-5m - m + 7$

$-6m + 7$

4) $-6x^2 - 3x^2 - 4x - 9x$

$-9x^2 - 13x$

5) $13xy - 17 + xy - 1$

$14xy - 18$

6) $4a - 3c - 7a - 3c$

$-3a - 6c$

7) $-x - 2y - 8x - 2y$

$-9x - 4y$

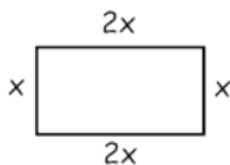
8) $7x + 11xy + x + 9$

$11xy + 8x + 9$

9) $mn + 4m + 6n + 2mn$

$3mn + 4m + 6n$

10) Find the perimeter of the rectangle in simplest form. (Remember, perimeter is the distance around the outside of a polygon.)



$P = 2x + x + 2x + x$

$P = 6x \text{ units}$

HOMEWORK - SIMPLIFY EXPRESSIONS

Simplify each expression.

1) $-3(2x - 4)$

$-6x + 12$

2) $-5(-8x - 2y + 4)$

$40x + 10y - 20$

3) $-4(2x - 6) - 7x - 5$

$-8x + 24 - 7x - 5$
 $-15x + 19$

4) $-7(-2 + 4x) - 13x + 25$

$14 - 28x - 13x + 25$
 $-41x + 39$

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

$21x - 15 - 6x + 12$
 $15x - 3$

6) $-5(-3x - 12) - (2x + 14)$

$15x + 60 - 2x - 14$
 $13x + 46$

* 7) $-10(-5x + 8) - 15 + 25x$

$50x - 80 - 15 + 25x$
 $75x - 95$

* 8) $-50x - 3(7x - 25) + 50x$

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

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

$(5x - 12) + (14x - 13)$
 $5x - 12 + 14x - 13$
 $19x - 25$

10) 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.

1) $(x + 8) + (-3 + 5x)$

2) $(12x - 15) - (x + 5)$

CLASSWORK:

Simplify each expression.

Any problems with fractions, your final answer needs to be A FRACTION IN SIMPLEST FORM!

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

$1.7x - 2.84$

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

$\frac{4}{5}x - \frac{11}{10}$

3) $-2.2 + 3.47y - 1.3 + 2.05y$

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

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