SSR

Read silently until 9:15

Nov 6-10:42 PM

Expressions Applications Opener

1. What is $(3x - 2) + (-4x + 1)$ in simplest form?

   A. $x - 3$
   B. $x - 3$
   C. $-x + 1$
   D. $x + 1$

$(3x \; -2) + (-4x + -1)$

$-x - 3$

2. Which of the following expressions can be written as $5(3 + x)$?

   A. $x \cdot 5 + x \cdot 3$
   B. $5 \cdot 3 + 5 \cdot x$
   C. $5 \cdot 3 + x$
   D. $3 + 5 \cdot x$

$$3 \quad +x$$

	3	+x
5	5·3 / 15	5·x / 5x

3. Use the Distributive Property to rewrite $4(12) + 4(8)$.

$4(12 + 8)$

80

Oct 26-10:15 AM

Learning Target

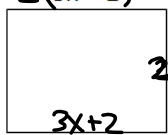**I can write area and perimeter in terms of x by simplifying expressions.**

May 31-12:05 PM

Perimeter & Area Application

What is perimeter?

How do you find perimeter?

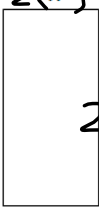Express perimeter of these shapes in terms of x.

1. $2(3x + 2)$ $2\boxed{6x}\boxed{+4}$ 2. $2(x)$ $2x$

$x+6$ $3x+2$

$2(x + 6)$ $2\boxed{2x}\boxed{+12}$

$2(2x + 4)$

$2\boxed{4x}\boxed{+8}$

$P = 8x + 16$

$(3x) + 2 + x + 6 + 3x + 2 + x + 6$
$8x + 16$

$(2x) + 4x + 8$

$(6x) + 4 + 2x + 12$
$8x + 16$
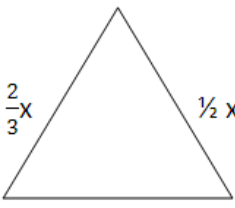
$P: 6x + 8$

Oct 26-10:18 AM

3.

$\frac{2}{3}x$ ½ x + 1

$\frac{5}{3}$ x - 10

$\overset{1}{2.7}$
$\times\ 2$
5.4

$\overset{1}{1.9}$
$\times\ 2$
3.8

4. $2\left(2.7x - 1.9\right)$

$2\left(3.4x + 3.2\right)$

$2\overline{\begin{array}{cc}2.7x & -1.9 \\ \hline 5.4x & -3.8\end{array}}$

$3.4x\ +3.2$

$2\ \overline{|68x\ |6.4|}$

$\boxed{5.4x}\boxed{-3.8}\boxed{+6.8x}\boxed{+6.4}$

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

$P: 12.2x + 2.6$

$\frac{4}{6}x + \frac{10}{6}x + \frac{3}{6}x = \frac{17}{6}x$

$P: \frac{17}{6}x - 9$

$\overset{14}{6.4}$
-3.8
2.6

Oct 26-10:46 AM

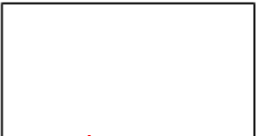
What is area?

How do you find area of a rectangle?

Express the area of these rectangles in terms of x. $7x(6+4x)$

1.   X   5x + 3

4

$5x\ \ +3$
$4\ \boxed{20x\ |\ 12}$

A: 20x + 12

2.   6 + 4x

7

$7(6+4x)$

$\ell \cdot w$
$6\ \ +4x$
$7\ \boxed{42\ |28x}$

A: 42 + 28x
28x + 42

Oct 26-10:46 AM

3

3. $(2.8x - 4)$

9

$2.8x \quad -4$

9 | $25.2x$ | -36 |

$\begin{array}{c} 2.8 \\ \underline{9} \\ 25.2 \end{array}$

A: $25.2x - 36$

4. $\left(8 - \frac{1}{5}x\right)$

¾

$\frac{3}{4}\left(8 - \frac{1}{5}x\right)$

$\frac{3}{4} \cdot \frac{8}{1} = \frac{24}{4} = 6$

$\frac{3}{4} \cdot \frac{-1}{5} = \frac{-3}{20}$

$8 \qquad -\frac{1}{5}x$

$\frac{3}{4}$ | 6 | $\frac{-3}{20}x$ |

A: $6 - \frac{3}{20}x$

Oct 26-10:46 AM

DRY ERASE PRACTICE

Oct 26-10:48 AM

Expectations

One person will have the whiteboard, that will rotate after each problem. If you do not have the whiteboard you are writing in your Interactive Notebook on page 92.

Volume: Low Level 2 (for discussion if needed while solving)

Dec 17-8:45 AM

Find Perimeter.

$2(4x + 6)$

$2(3x + 8)$

Oct 26-10:50 AM

Find Perimeter.

$$\frac{3/4x + 12/5}{2 \,|\, 6/4x \,|\, 24/5}$$

$$2\left(\frac{3}{4}x + \frac{12}{5}\right)$$

$$\frac{2}{1} \cdot \frac{3}{4} = \frac{6}{4}$$

$$2\left(\frac{2}{3}x + 2\right)$$

2/3x +2

$$2 \,|\, 4/3x \,|\, +4$$

$$\frac{2}{1} \cdot \frac{12}{5} = \frac{24}{5}$$

$$\frac{2}{1} \cdot \frac{2}{3}$$

$$\frac{6}{4}x + \frac{24}{5} + \frac{4}{3}x + 4$$

$$\frac{18}{12}x + \frac{16}{12}x$$

Oct 26-10:51 AM

Find Perimeter.

$$2(6x + 5)$$

$$2(4x - 2)$$
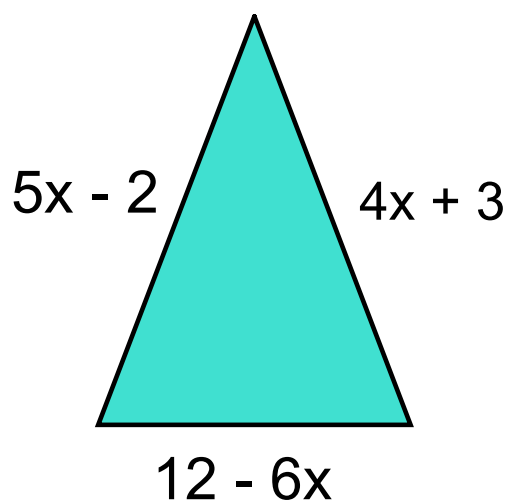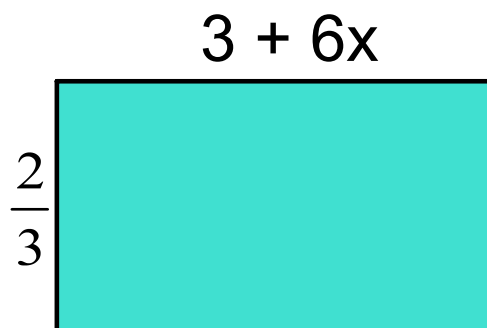
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Find Perimeter.

$4.1x - 3$

$6.3x - 1.2$

$3.8x + 5.4$
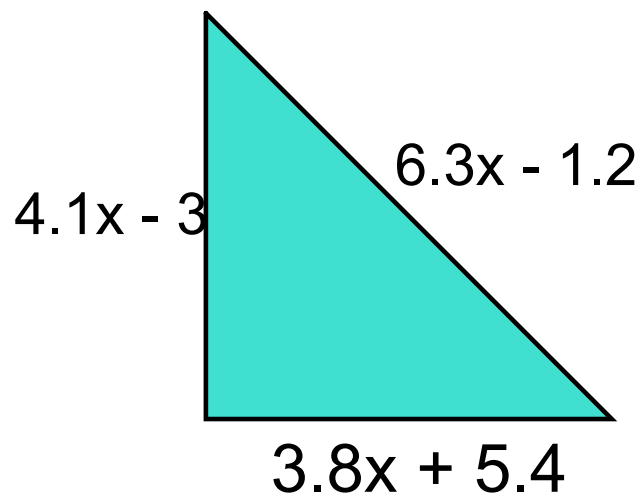
Oct 26-10:52 AM

Find Perimeter.

$5x - 2$　　$4x + 3$

$12 - 6x$

Oct 26-10:52 AM

Find Area.

$3 + 6x$

$\dfrac{2}{3}$

$\dfrac{6}{3} + \dfrac{12}{3}x$

$2 + 4x$

Oct 26-10:51 AM

Find Area.

$\dfrac{3}{7}x + \dfrac{2}{3}$

8

Oct 26-10:51 AM

Find Area.

$$8 - 4x$$

-7

Oct 26-10:51 AM

Find Area.

$$\frac{7}{4}x + 3$$

6
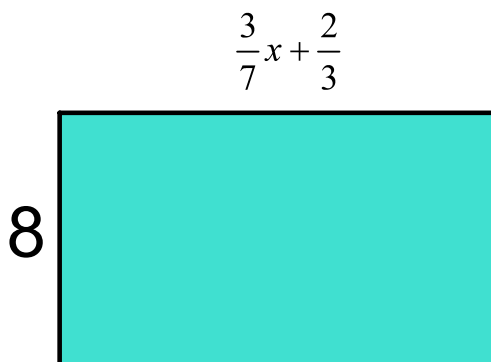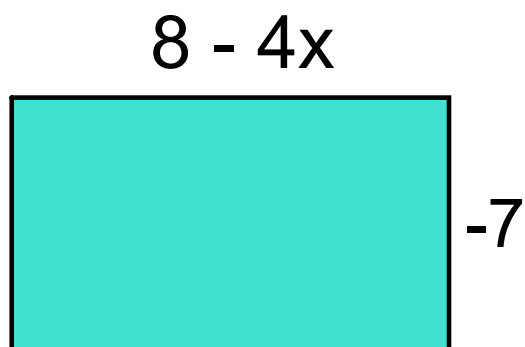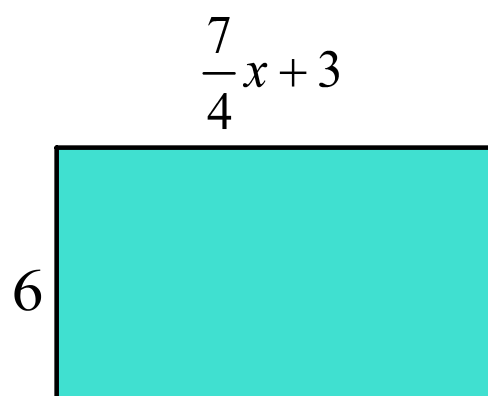
Oct 26-10:51 AM

SUMMARY

"The length of a rectangle is 4x + 3 and the width is 1/2. "

Austin says the area of the rectangle is 2x + 3. Is he correct?

May 31-12:05 PM

Oct 26-10:54 AM