

New Seating Chart

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Do Now: Find the perimeter of the rectangle.

$$P = 38 + 38 + 23 + 23$$
$$= 76 + 46$$
$$= 122$$

Handwritten work for finding the perimeter of a rectangle with side lengths $15x - 7$ and $4y + 3$:

For the top side: $15x - 7$

For the right side: $4y + 3$

For the bottom side: $12x + 2$

For the left side: $5y - 2$

Substituting values for x and y :

$15x - 7 = 15(3) - 7 = 45 - 7 = 38$

$4y + 3 = 4(5) + 3 = 20 + 3 = 23$

$12x + 2 = 12(3) + 2 = 36 + 2 = 38$

$5y - 2 = 5(5) - 2 = 25 - 2 = 23$

Final calculation for perimeter:

$$P = 38 + 38 + 23 + 23 = 122$$

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Handwritten work for solving the equation $7t - 3(10t) = -19$:

$$7t - 3(10t) = -19$$
$$7t - 30t = -19$$
$$-23t = -19$$
$$t = \frac{-19}{-23}$$
$$t = \frac{19}{23}$$

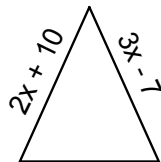
6.2 Solving Equations with Variables on Both Sides

7.NS
7.EE

- SWBAT solve equations that have variables on both sides.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

Each side of the triangle has the same length, find the perimeter.



Two sides of a square are shown, find the length of one of the sides.

$$\begin{array}{rcl}
 16y - 43 & & 4y + 65 \\
 16(9) - 43 & & 4(9) + 65 \\
 144 - 43 & & 36 + 65 \\
 \hline
 101 & = & 101
 \end{array}$$

$$\begin{array}{r}
 16y - 43 = 4y + 65 \\
 -4y \quad -4y \\
 \hline
 12y - 43 = 65 \\
 +43 \quad +43 \\
 \hline
 12y = 108 \\
 \div 12 \quad \div 12 \\
 \hline
 y = 9
 \end{array}$$

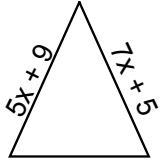
"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook pg. 79 #1-27 odds

Extra-Credit: #10

Exit Pass: Each side of the triangle has the same length, find the perimeter.



Reflection of Today's Lesson

6.2 Solving Equations with Variables on Both Sides

7.NS
7.EE

- SWBAT solve equations that have variables on both sides.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

Homework

Finish the workbook assignment

