

Applying Expressions

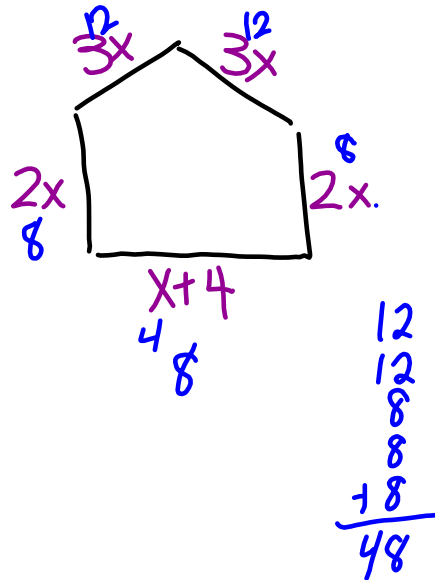
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Examples

① Find the perimeter.

$$3x + 3x + 2x + x + 4 + 2x$$

$$11x + 4$$



Find the perimeter if $x = 4$

$$11(4) + 4$$

$$44 + 4 = \boxed{48 \text{ units}}$$

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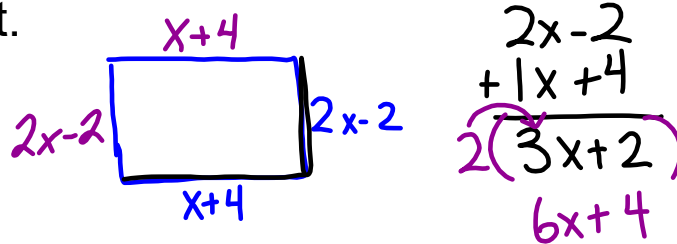
A rectangle has side lengths $(x + 4)$ feet and $(2x - 2)$ feet. Write a linear expression in simplest form to represent the perimeter. Find the perimeter if the value of x is 7 feet.

$$6x + 4$$

$$6(7) + 4$$

$$42 + 4$$

$$\boxed{46 \text{ feet}}$$



$$x + 4 + x + 4 + 2x - 2 + 2x - 2$$

$$\boxed{6x + 4 \text{ feet}}$$

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The number of runs scored by the home team at a baseball game is represented by $(x + 7)$. The number of runs scored by the visiting team is represented by $(3x - 7)$. Write an expression to find **how many more runs** the home team scored than the visiting team. Then evaluate the expression if the value of x is 6.

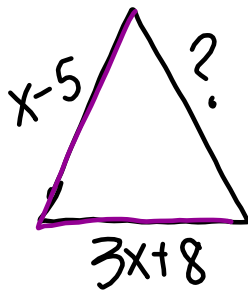
$$\begin{array}{r} (x+7) - (3x-7) \\ -3x+7 \\ \hline -2x+14 \text{ Runs} \end{array}$$

$$\begin{array}{r} -2x+14 \\ -2(6)+14 \\ -12+14 \\ \boxed{2 \text{ runs}} \end{array}$$

Home: 13
Away: 11

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⑤ Find the missing side if the Perimeter = $6x + 2$

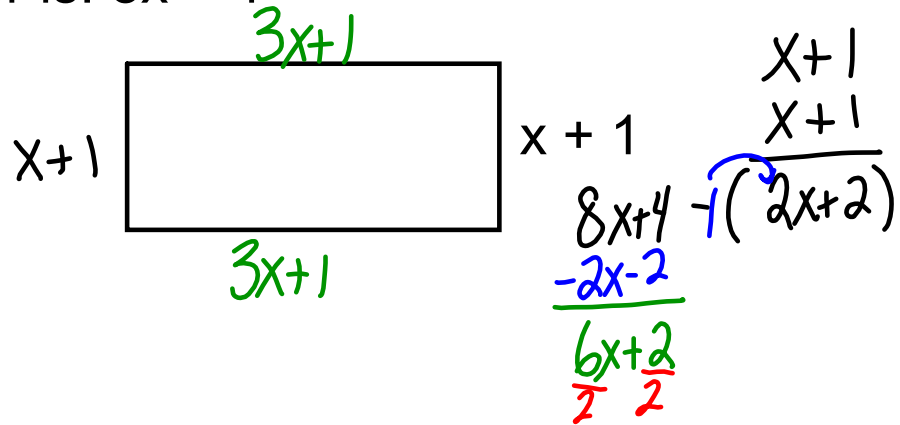


$$\begin{array}{r} x-5 \\ +3x+8 \\ \hline 4x+3 \\ +2x-1 \\ \hline 6x+2 \end{array}$$

$$\begin{array}{r} 6x+2 - (4x+3) \\ -4x-3 \\ \boxed{2x-1} \end{array}$$

Nov 29-11:58 AM

Find the missing sides of rectangle if the perimeter is: $8x + 4$



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