Warm Up.



Shirley is going to have the exterior of her home painted. Tim's Painting charges a base fee of \$250 plus \$14 per hour. Colorful Paints charges \$22 per hour. After how many hours would the two costs be equal?

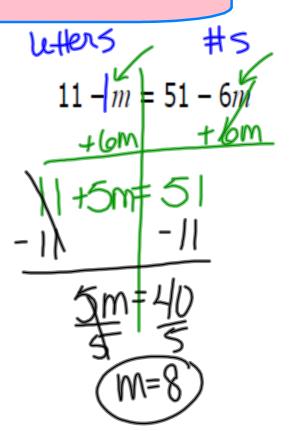
Tim's: 250+14x

(P: 22x)

$$250 + 141 \times = 22 \times \\ -141 \times = 141 \times \\ 250 = 81 \times \\ 31.25 = 141 \times \\ 31.25 = 1$$

Solving Equations w/ Variables on Both Sides

#5 Lettors
$$12 - 2u = 9u + 45$$
 $+2u + 2u$
 $12 = 11u + 45$
 -45
 $-33 = 11$
 $-33 = 11$



Do you understand?

You are solving an equation with a variable on each side. Does the side on which you choose to isolate the variable impact the solution? Why might you choose one side over the other?



Side doesn't matter

$$7k = 3k - 36$$



$$3(6p-1) = 11p-45$$



$$5(x-2) = 2(10+x)$$

Name:	Variables	Score
	on Both Sides Sprint	/9

Directions: INDEPENTENTLY solve each equation in the space below. Write your answer on the line provided.

1.
$$3a + 7 = -4a - 35$$

2.
$$-4x = 2x + 42$$

3.
$$-4(3-x)=36$$