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At Trophies-R-Us costs \$12.50, and engraving costs \$0.40 per letter. At Best Trophies, the same trophy costs \$14.75 and engraving costs \$0.25.

Write an equation AND show all work to find how many engraved letters, e , must be engraved for the costs to be the same?

Your Answer:

Question: What is engraved letters, e ?

$$\begin{array}{rcl}
 \text{Solve: Trophies R Us:} & = & \text{Best Trophies:} \\
 12.50 + 0.40e & = & 14.75 + 0.25e \\
 - 0.25e & = & - 0.25e
 \end{array}$$

----- subtract 0.25e from both sides

$$\begin{array}{rcl}
 12.50 + 0.15e & = & 14.75 \\
 -12.50 & & -12.50
 \end{array}$$

----- subtract 12.50 from both sides

$$0.15e = 2.25$$

----- Multiply by 100 to clear decimal

$$15 e = 225$$

----- Divide both sides by 15

$$e = 15$$

Solution: 15 letters must be engraved for the costs to be the same.

$$\begin{array}{rcl}
 12.50 + (0.40)(15) & =? & 14.75 + (0.25)(15) \\
 12.50 + 6.0 & =? & 14.75 + 3.75 \\
 18.50 & = & 18.50
 \end{array}$$

Solution checked.



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$$\begin{array}{r}
 -12.50 \qquad \qquad -12.50 \\
 \hline
 0.15e = 2.25 \\
 \hline
 15e = 225 \\
 \hline
 e = 15
 \end{array}$$

subtract 12.50 from both sides

Multiply by 100 to clear decimal

Divide both sides by 15

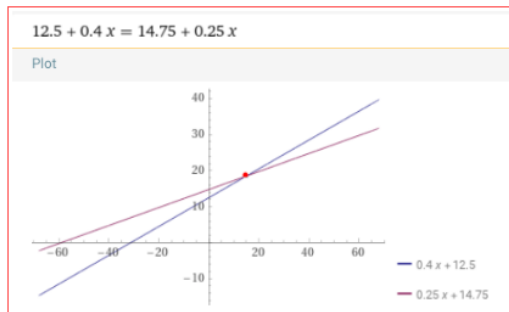
Solution: 15 letters must be engraved for the costs to be the same.

$$12.50 + (0.40)(15) =? 14.75 + (0.25)(15)$$

$$12.50 + 6.0 =? 14.75 + 3.75$$

$$18.50 = 18.50$$

Solution checked.





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Bill weighs 120 pounds and is gaining 10 pounds each month. Phil weighs 150 pounds and is gaining 4 pounds each month.

Write an equation AND show all work to find how many months, m , will it take for Bill to weigh the same as Phil.

Your Answer:

UNDERSTAND: Find m , months for Bill to weigh the same as Phil

PLAN	Bill	=	Phil
	$120 + 10m$	=	$150 + 4m$

SOLVE

$120 + 10m$	=	$150 + 4m$
$- 4m$	=	$-4m$

----- Subtract 4m from both sides

$120 + 6m$	=	150
-120	=	-120

----- Subtract 120 from both sides

$6m$	=	30
------	---	------

===== Divide both sides by 6

m	=	5
-----	---	-----

===== SOLUTION $m = 5$

CHECK

$120 + 10m$	=	$150 + 4m$
$120 + 10(5)$	=?	$150 + 4(5)$
$120 + 50$	=?	$150 + 20$



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$$m = 5$$

===== SOLUTION $m = 5$

CHECK

$$120 + 10m = 150 + 4m$$

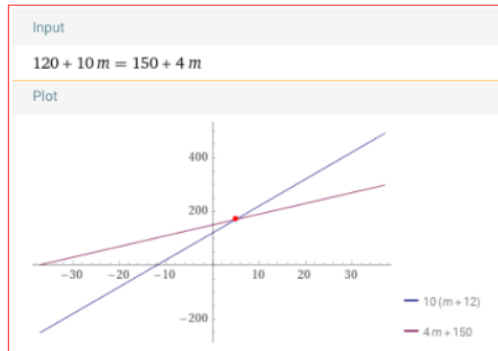
$$120 + 10(5) =? 150 + 4(5)$$

$$120 + 50 =? 150 + 20$$

$$170 = 170$$

Solution checked.

In $m=5$ months, Bill and Phil will both weigh 170 pounds.



Solution

$$m = 5$$