PIZZA SHOPS



By: Aurelia Asmara

The Word Problem

Pablo's pizza store charges 5 dollars for delivery fee and it cost 10 dollars for a large pizza. Carlos pizza store charges 2 dollars for delivery fee and it cost 15 dollars for a large pizza. Which pizza store is cheaper?



Substitution

<i>y</i> = 10×+5 <i>y</i> = 1	5×+2
10×+5= 15×+2	11= 15(³ ⁄ ₅)+2
<i>y</i> = 10(¾5)+5	11= 9+2
<i>y</i> = 6+5	11=11√
<i>y</i> = 11	

Elimination

 $y = 10 \times +5$ $y = 15 \times +2$ $(y = 10 \times +5) - (y = 15 \times +2)$ y = 10(3/5) + 5 $0 = -5 \times +3$ y = 11 $-3 = -5 \times$ 11 = 15(3/5) + 2 $3/5 = \times$ $11 = 11 \sqrt{2}$

Graph and Intersect



Conclusion

In Conclusion, both pizza shops would both cost \$11 after 10 large pizzas. Pablos pizza shop used the equation y=10x+5. Carlos pizza shop used the equation y=15x+2. I filled x in for $\frac{3}{5}$ to find my y which was the total cost of 10 large pizzas from both shops.

Network Workers

By: Jasmin Hawter





Rex would show up for 50 dollars and for every hour it would cost 25 dollars. Then for Max, he would show up for 90 dollars and for every hour it would cost 20 dollars.



My Two Equation:

$${y = 25x + 50}$$

 ${y = 20x + 90}$



Solving By Substitution:

$$y = 25x + 50$$

$$y = 20x + 90 \longrightarrow 20x + 90 = 25x + 50$$

$$-20x \longrightarrow 90 = 5x + 50$$

$$y = 20(8) + 90 \longrightarrow 40 = 5x$$

$$y = 160 + 90$$

$$y = 250 \longleftarrow 8 = x$$

Solving By Elimination:

$$y = 25x + 50 (8)$$

$$y = 20x + 90 (10)$$

$$y = 200x + 400 -500 = 25x + 50$$

$$-500 = 25 (-22) + 50$$

$$y = 200x + 900 -500 = 25x$$

$$y = 200x + 900 -500 = 25x$$

$$-500 = 25x$$



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In conclusion, both of the workers would make the same amount of money. At the end of the 8th hour they would make \$250.