

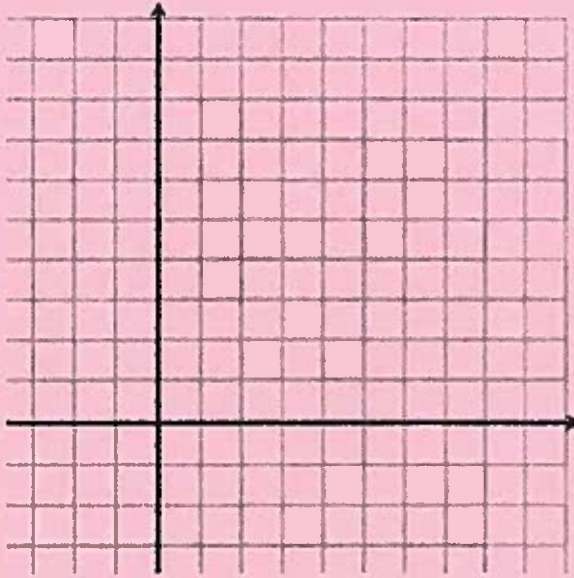
# Graphing Linear Equations Word Problems

Georgie joins a gym. She pays \$25 to sign-up and then \$15 each month.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



Write it!

Use your graph to find a solution. Label it. Write your answer as a sentence.

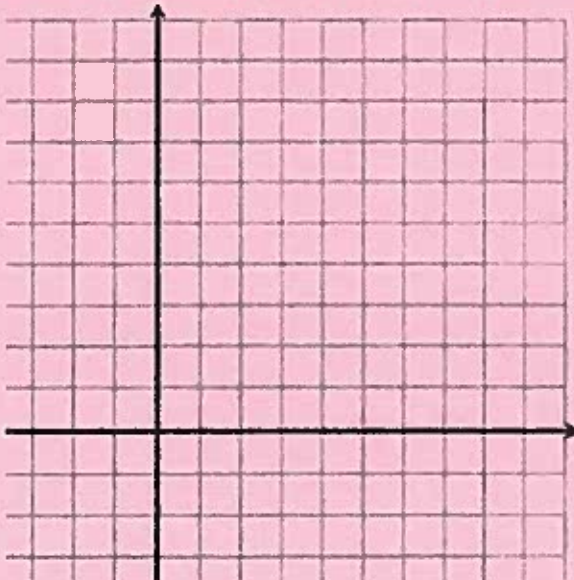
Read the Graph: How much will Georgie have paid if she used the gym for 5 months?

2. Edwin has \$50.00 in his bank. He starts spending \$2.50 each week on snacks at lunch.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



Write it!

Use your graph to find a solution. Label it. Write your answer as a sentence.

Read the Graph: After how many weeks will Edwin run out of money? How is this shown on the graph?

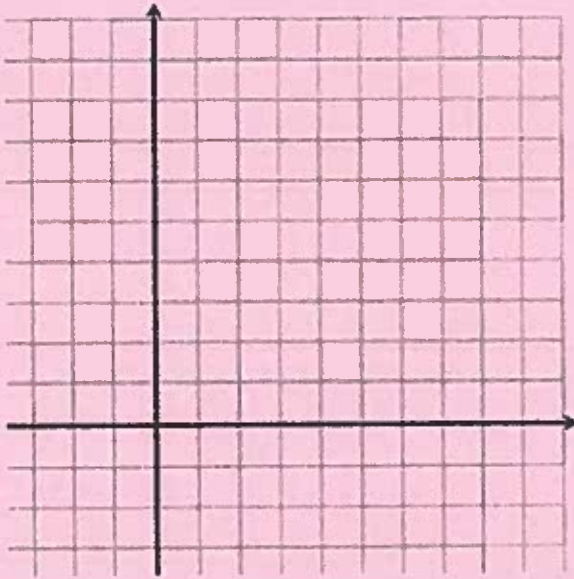
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3. Jesus wants to start saving for college. His parents started an account for him that currently holds \$325. Jesus adds \$50 each month.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



Write it!

Use your graph to find a solution. Label it. Write your answer as a sentence.

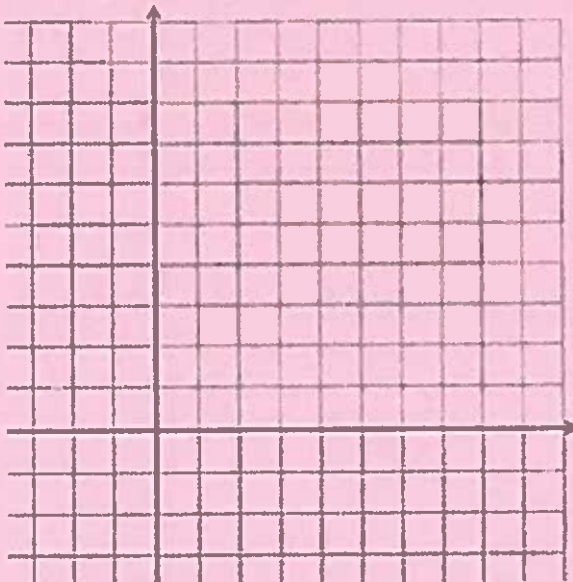
Read the Graph: Determine how much money Jesus will have if he continues this pattern for a year?

4. Victoria moved into a new apartment and called to install her cable. They told her they charged \$45 to install the cable box and \$60 each month for the service.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



Write it!

Use your graph to find a solution. Label it. Write your answer as a sentence.

Read the Graph: Why should you only draw this graph in the first quadrant?



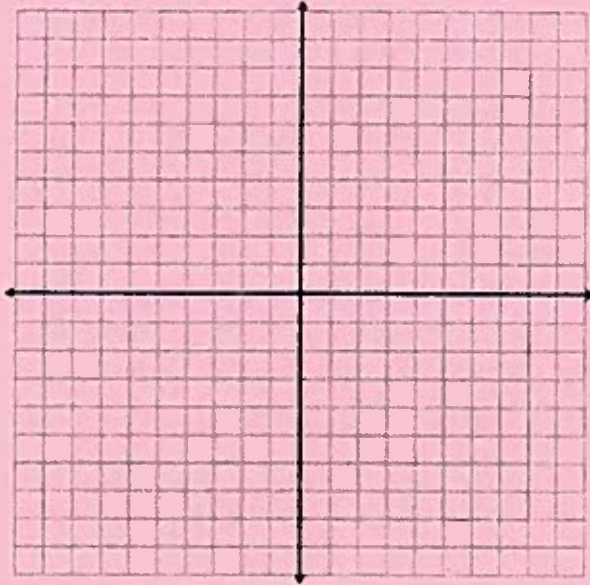
# Graphing Linear Equations Word Problems

Jennifer spent \$150 at a craft fair to rent a booth. She sells knit blankets for \$25 each.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



Write it!

Use your graph to find a solution. Label it. Write your answer as a sentence.

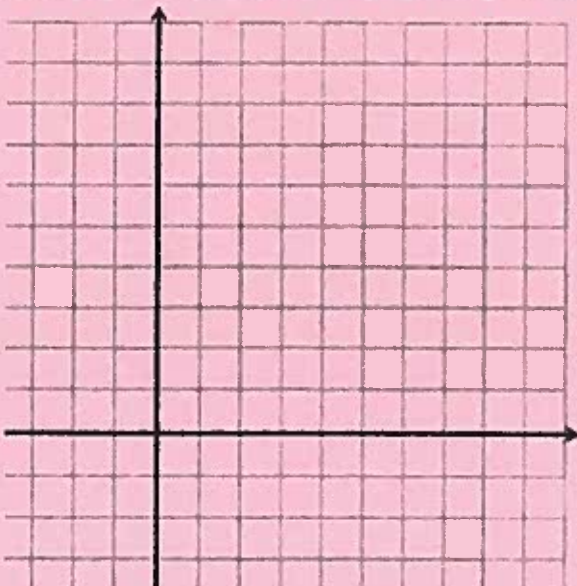
Read the Graph: How many blankets does Jennifer need to sell to break even?

6. Lin wants to empty her hot tub to clean it. She has a 300 gallon hot tub and empties it at a rate of 20 gallons each minute.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



Write it!

Use your graph to find a solution. Label it. Write your answer as a sentence.

Read the Graph: How many gallons will be in the tub after 8 minutes?

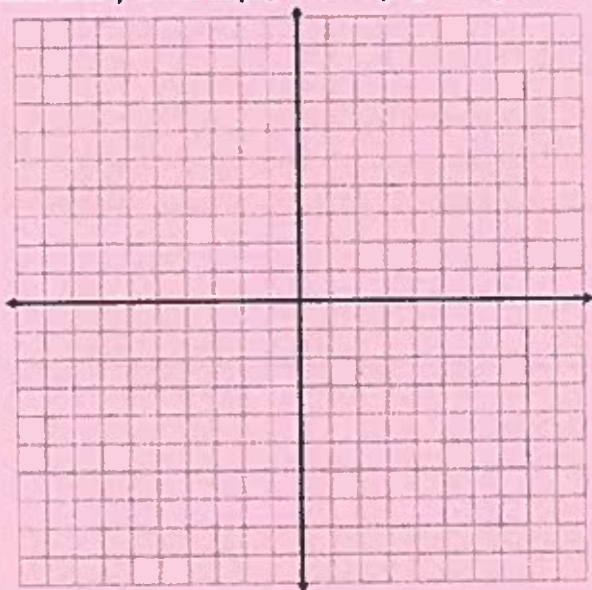
# Graphing Linear Equations Word Problems

7. Greg saved \$8,000 prior to starting college. Each semester he must pay \$2,500 in tuition and fees. He knows he will eventually be in debt.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



Write it!

Use your graph to find a solution. Label it. Write your answer as a sentence.

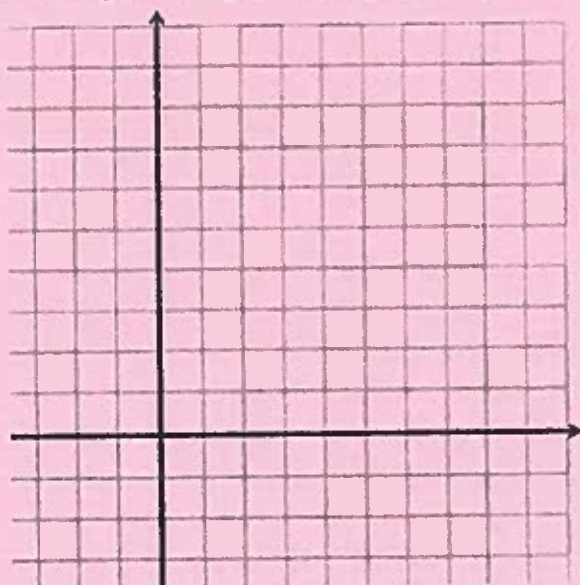
Read the Graph: Determine how much debt Greg will be in if he graduates in 4 years (8 semesters)?

8. Sierra wants to train for a marathon. Right now she can run 4 miles. She plans to add half a mile each week.

Create the Equation:

Graph it!

Label the y-intercept, the slope, and your axes.



Write it!

Use your graph to find a solution. Label it. Write your answer as a sentence.

Read the Graph: How many weeks until Sierra could run half a marathon (13.1 miles)?