



TOWING SERVICE

| <p style="text-align: center;">Verbal Description</p> <p>When a tow truck is called, the cost of the service is \$10 plus \$1 per mile that the car must be towed.</p> <p>Write and graph a linear equation to represent the total cost of the towing service, which is dependent on the number of miles the car is towed.</p> <p>Find and interpret the slope and y-intercept of the linear equation</p> | <p style="text-align: center;">Equation</p> <p>Define your variables:</p> <p>y =</p> <p>x =</p> <p style="text-align: center;">Write your equation:</p> <p>y =</p> | | | | | | | | |
|---|--|---|--|--|--|--|--|--|--|
| <p style="text-align: center;">Table of Values</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">X</th> <th style="padding: 5px;">Y</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> </tbody> </table> <p style="text-align: center;">Points to Graph:</p> <p style="text-align: center;">(,)</p> <p style="text-align: center;">(,)</p> <p style="text-align: center;">(,)</p> | X | Y | | | | | | | <p style="text-align: center;">Graph</p> <div style="text-align: center; margin-top: 20px;"> </div> |
| X | Y | | | | | | | | |
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T-SHIRT SHOP

Verbal Description

Your new job is at the Custom T Shop, where T-shirts are printed to order. For each order, Custom T Shop charges \$8.00 per shirt plus a one time set up fee of \$15.00.

Write and graph a linear equation to show how the total cost of the T-shirts depends on how many T-shirts are ordered

Equation

Define your variables:

y =

x =

Write your equation:

y =

Table of Values

| X | Y |
|---|---|
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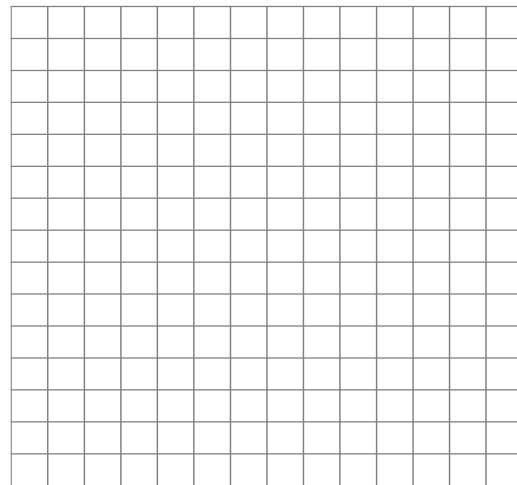
Points to Graph:

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Graph





PLUMBER

Verbal Description

When a plumber is called, the cost of the service call is \$50 for him to show up at your house, plus an additional \$25 per hour.

Write and graph an equation to represent this relationship where y is the total cost of the service call and x is the number of hours the plumber is at your home.

Find and interpret the slope and y-intercept of the linear equation

Equation

Define your variables:

$y =$

$x =$

Write your equation:

$y =$

Table of Values

| X | Y |
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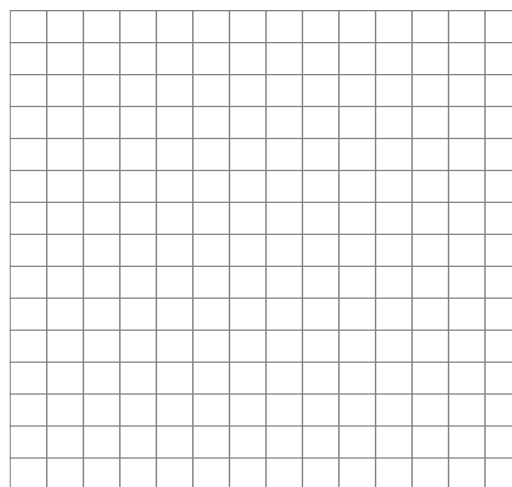
Points to Graph:

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Graph





CELL PHONE CHARGES

Verbal Description

Your cell phone company charges \$20 a month plus \$0.50 per text message.

Write and graph an equation that shows how your total bill depends on the number of text messages sent.

Equation

Define your variables:

y =

x =

Write your equation:

y =

Table of Values

| X | Y |
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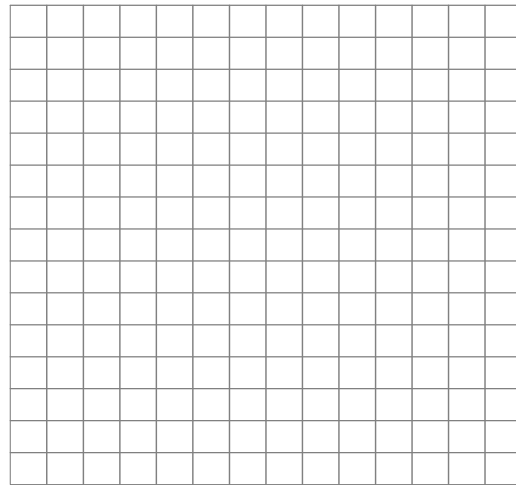
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Graph





Name _____ Period _____ Date _____

POPULATION

Verbal Description

Suppose a town has a population of 5,000 residents but that the population is decreasing by 200 people each year.

Write and graph a linear equation to represent the population of the town in terms of the year.

Equation

Define your variables:

y =

x =

Write your equation:

y =

Table of Values

| X | Y |
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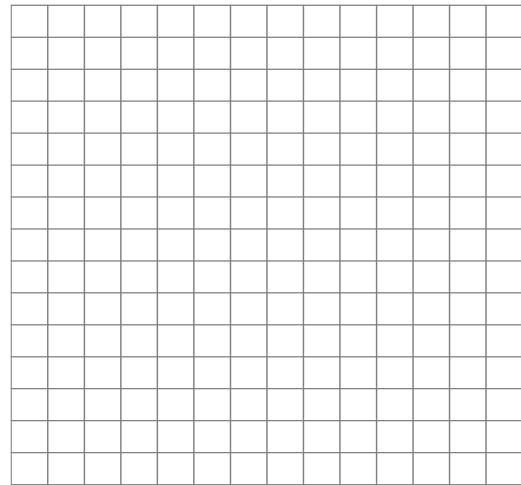
Points to Graph:

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Graph





CARICATURES AT THE FAIR

Verbal Description

At a fair, Bob draws caricatures. He pays the fair \$30 for space to set up a table and \$2 for each drawing he sells.

Write and graph an equation to represent the total amount of money Bob pays the fair in order to sell his caricatures. Let x = the number of caricatures he sells.

Equation

Define your variables:

$y =$

$x =$

Write your equation:

$y =$

Table of Values

| X | Y |
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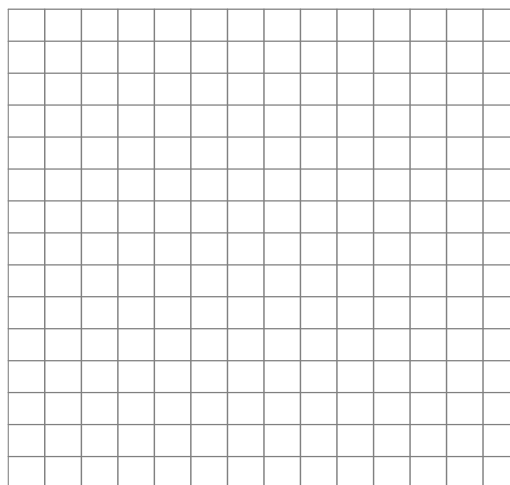
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Graph





WINGS AND SHRIMP

Verbal Description

Suppose you have \$60 to buy shrimp and chicken wings for a party. Shrimp costs \$10/lb and wings cost \$6/lb.

Write and graph a linear equation that could be used to determine the number of pounds of each food that can be purchased with \$60.

Equation

Define your variables:

y =

x =

Write your equation:

y =

Table of Values

| X | Y |
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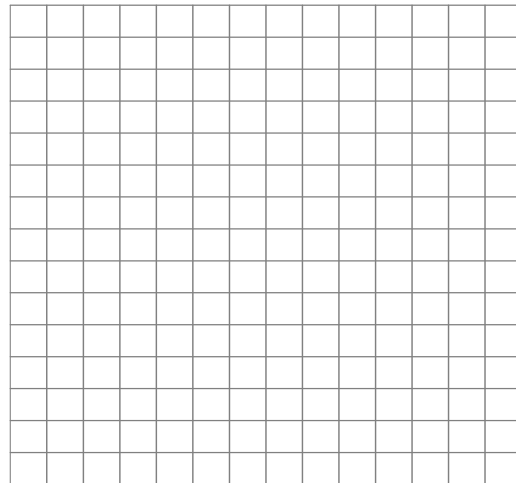
Points to Graph:

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Graph





CARMEL APPLES

Verbal Description

A vendor has learned that, by pricing caramel apples at \$1.75, sales will reach 105 caramel apples per day. Raising the price to \$2.75 will cause the sales to fall to 53 caramel apples per day.

Let y be the number of caramel apples the vendor sells at x dollars each. Write and graph a linear equation that models the number of caramel apples sold per day when the price is x dollars each

Equation

Define your variables:

$y =$

$x =$

Write your equation:

$y =$

Table of Values

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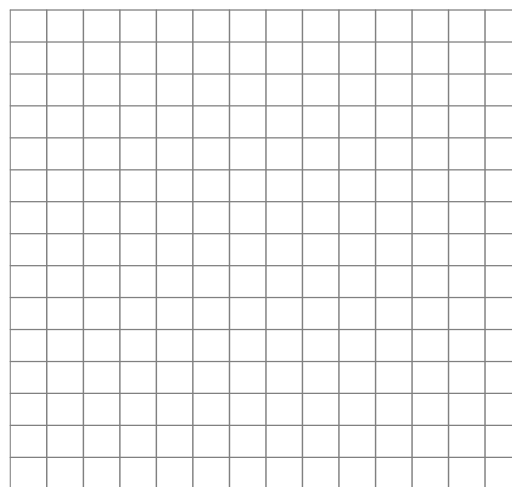
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Graph





Name _____ Period _____ Date _____

CAR VALUE

Verbal Description

The average value of a certain type of automobile was \$14,220 in 1993 and depreciated to \$9780 in 1997.

Let y be the average value of the automobile in the year x , where $x = 0$ represents 1993. Write and graph a linear equation that models the value of the automobile in terms of the year x .

Equation

Define your variables:

$y =$

$x =$

Write your equation:

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Name _____ Period _____ Date _____

TEMPERATURES

Verbal Description

The formula for converting temperature from Celsius to Fahrenheit is

$$F = \frac{9}{5}C + 32$$

where F represents the degrees Fahrenheit and C represents the temperature in degrees Celsius.

Construct a graph to show the relationship between the temperatures in both measuring systems.

Equation

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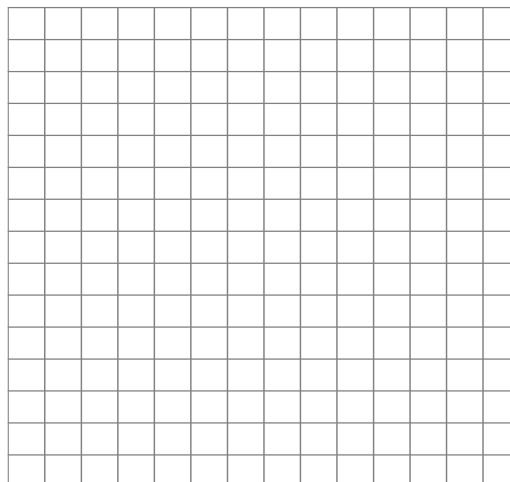
Points to Graph:

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Graph





RENTAL CAR

Verbal Description

The rental rate at Rent a Wreck is \$30 per day plus \$0.25 per mile driven.

Write and graph a linear equation to represent the total cost to rent a car for x number of miles.

Equation

Define your variables:

$y =$

$x =$

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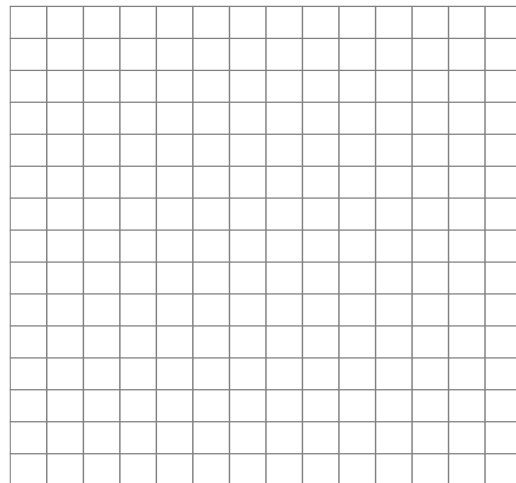
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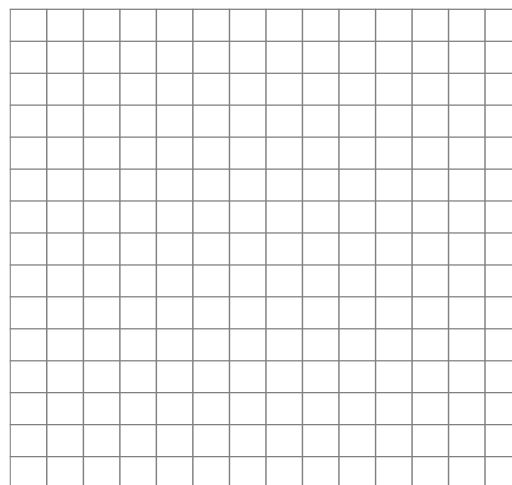
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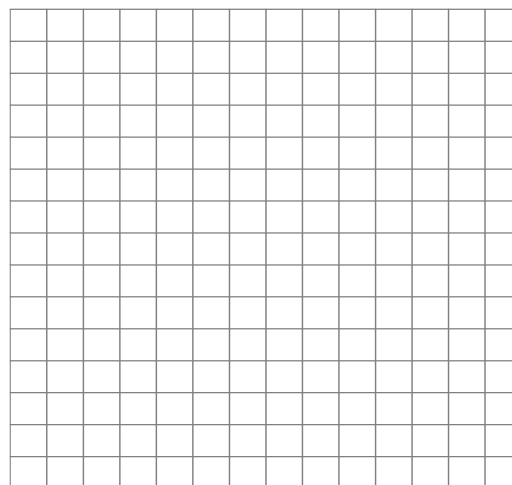
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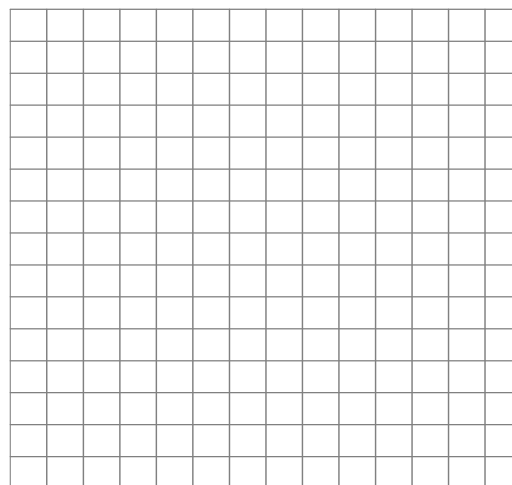
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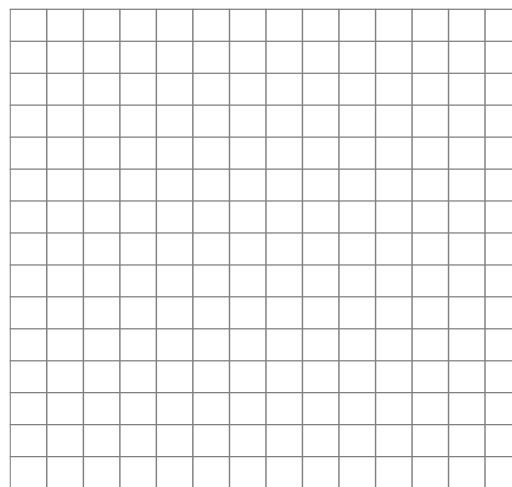
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