

Name \_\_\_\_\_ Date \_\_\_\_\_

**TOWING SERVICE****Verbal Description**

When a tow truck is called, the cost of the service is \$10 plus \$1 per mile that the car must be towed.

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.

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**

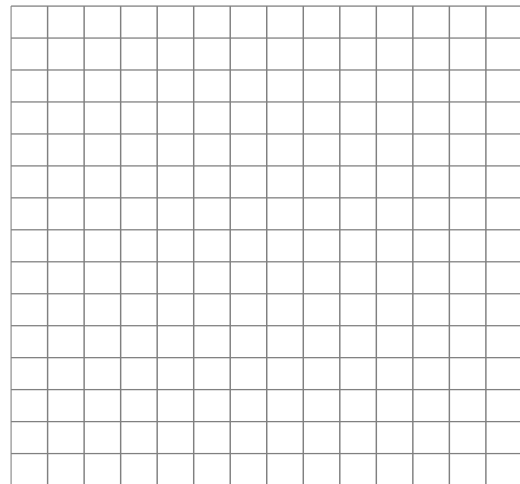
X	Y

Points to Graph:

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**Graph**

## 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

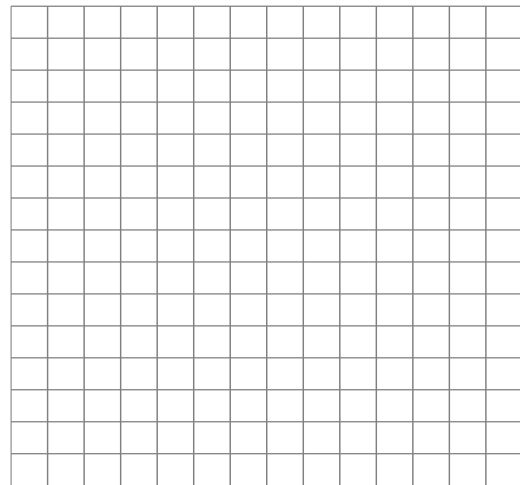
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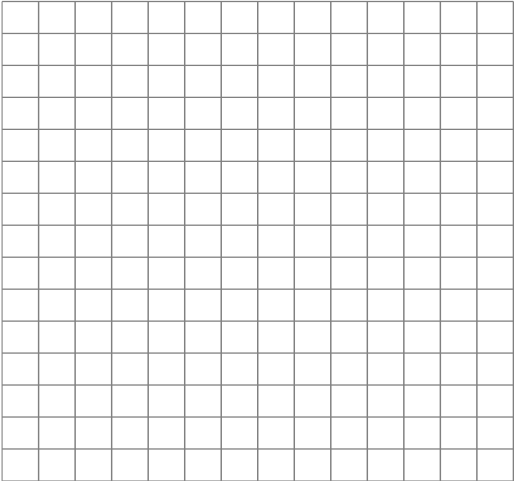
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### Graph



PLUMBER

<p><b>Verbal Description</b></p> <p>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.</p> <p>Write and graph an equation to represent this relationship where <math>y</math> is the total cost of the service call and <math>x</math> is the number of hours the plumber is at your home.</p> <p>Find and interpret the slope and y-intercept of the linear equation</p>	<p><b>Equation</b></p> <p>Define your variables:</p> <p><math>y =</math></p> <p><math>x =</math></p> <p><b>Write your equation:</b></p> <p><math>y =</math></p>								
<p><b>Table of Values</b></p> <table border="1"><thead><tr><th>X</th><th>Y</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table> <p>Points to Graph:</p> <p>(     ,     )</p> <p>(     ,     )</p> <p>(     ,     )</p>	X	Y							<p><b>Graph</b></p> 
X	Y								

## 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

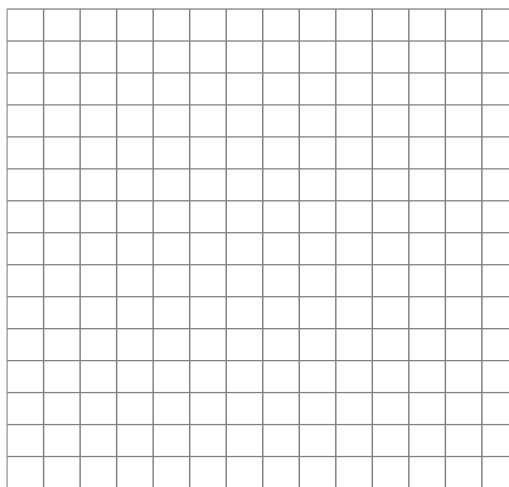
Points to Graph:

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### Graph



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

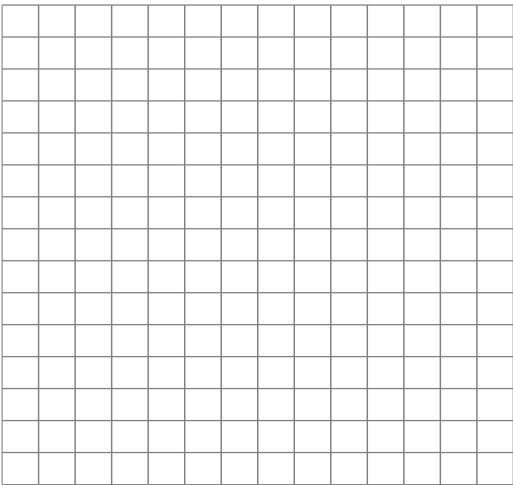
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Graph



## 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

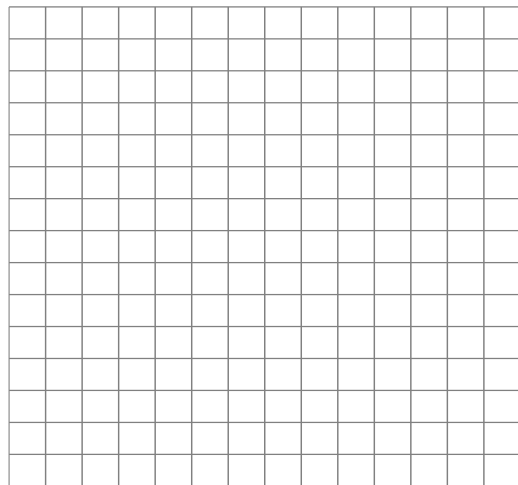
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### Graph



## 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

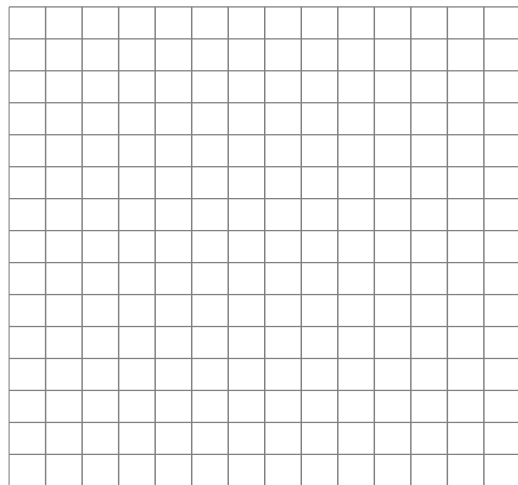
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### Graph



## CARAMEL 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

X	Y

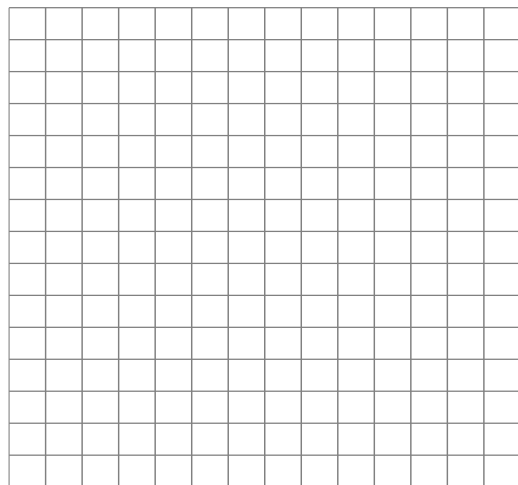
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### Graph





## 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:**

$y =$

### Table of Values

X	Y

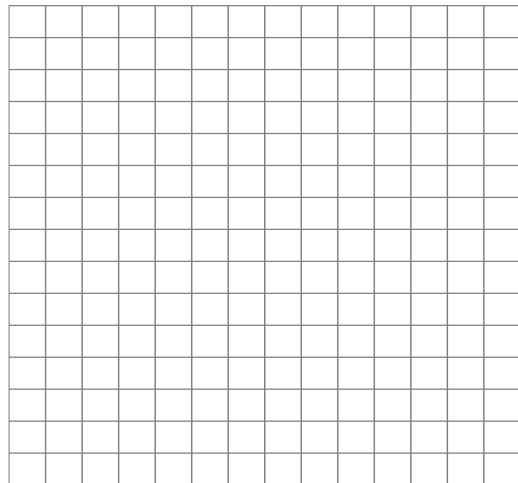
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### Graph



# 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:

$y =$

$x =$

Write your equation:

$y =$

## Table of Values

X	Y

Points to Graph:

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(     ,     )

## Graph

