

GAS MILEAGE

Story:

Your car has ____ gallons of gas.
You use up 1 gallon for every
____ miles you travel.

Equation:

$$y = -\frac{1}{20}x + 10$$

Initial Value:

Rate of Change:

Graph:

Using Gas

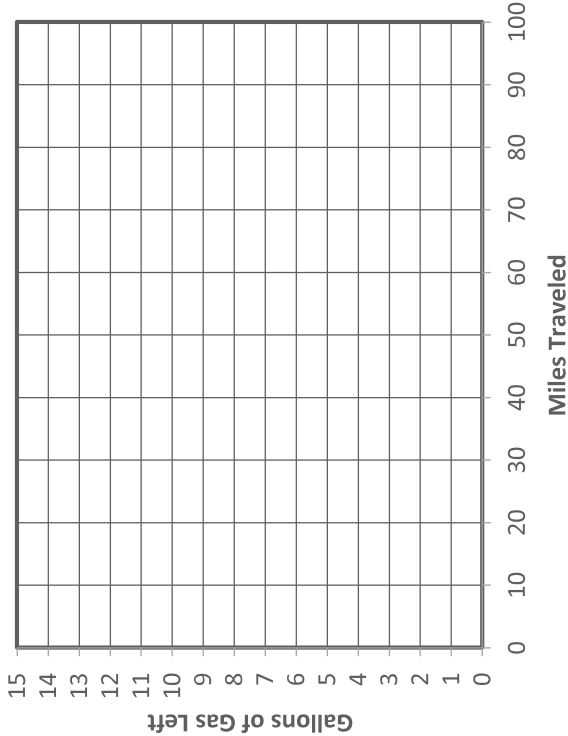


Table of Values:

x	y
0	
20	
40	
60	
80	

PARTY GUESTS

Story:

To host a party at a local restaurant, you must pay \$_____ to rent it and \$_____ per guest.

Equation:

Initial Value:

Rate of Change:

Graph:

Restaurant Cost

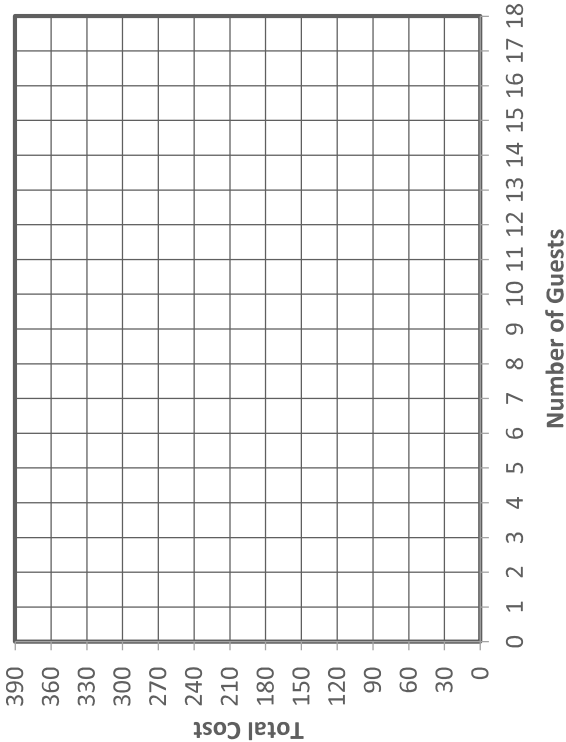


Table of Values:

x	y
0	90
3	
6	180
9	225
12	

TEMPERATURE TRENDS

Story:

The temperature is currently ____
degrees Fahrenheit. It is ____
____ degrees every ____ hour(s).

Equation:

Initial Value:

Rate of Change:

Graph:

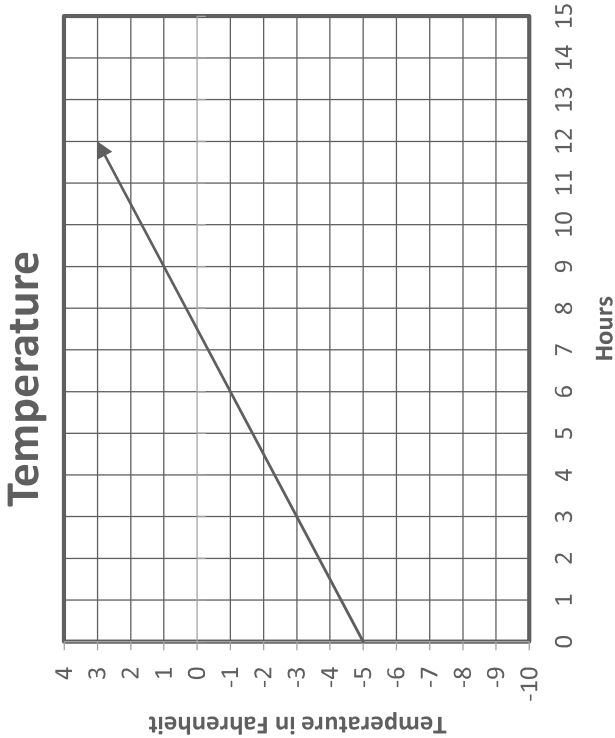


Table of Values:

x	y
0	
3	
6	
9	
12	

RIDES AT THE FAIR

Story:

To get into the fair, you must pay
\$ _____. Each ride costs
\$ _____.

Equation:

Initial Value:

Rate of Change:

Graph:

Fair Cost

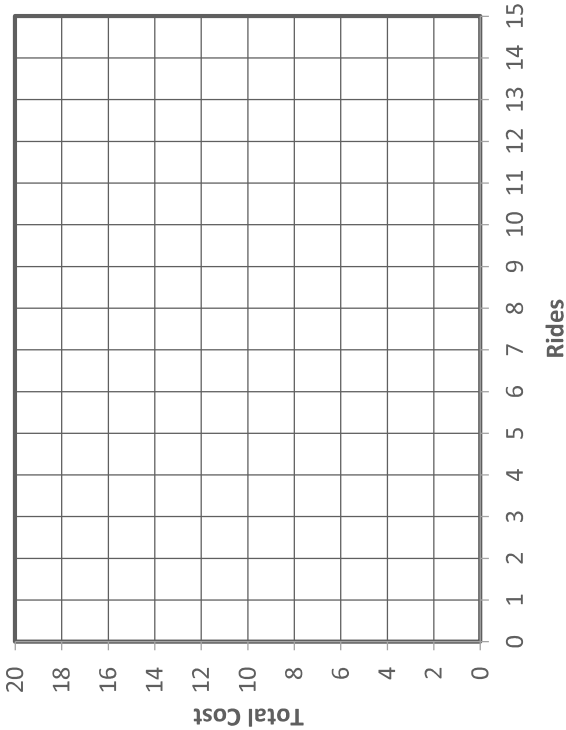


Table of Values:

x	y
0	
2	7.50
5	12.00
8	
10	

LUNCH MONEY

Story:

You have an allowance to spend on lunch this week. You will spend the same amount each day, and you get to keep whatever is left at the end of the week. After two days, you have \$12.10 remaining. After five days, you have \$2.50 remaining.

Equation:

Initial Value:

Rate of Change:

Graph:

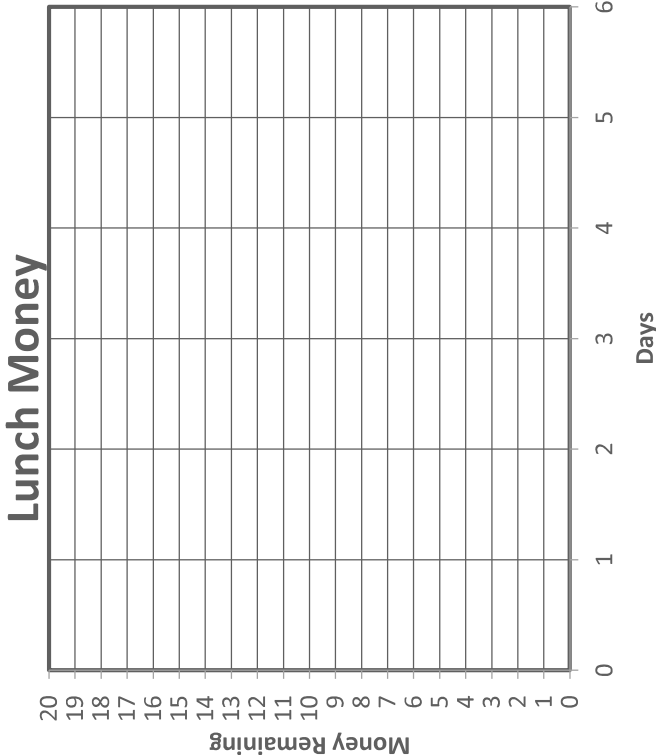


Table of Values:

x	y
0	
1	
2	
3	
4	

CREATE YOUR OWN STORY

Story:

Equation:

Initial Value:

Rate of Change:

Graph:

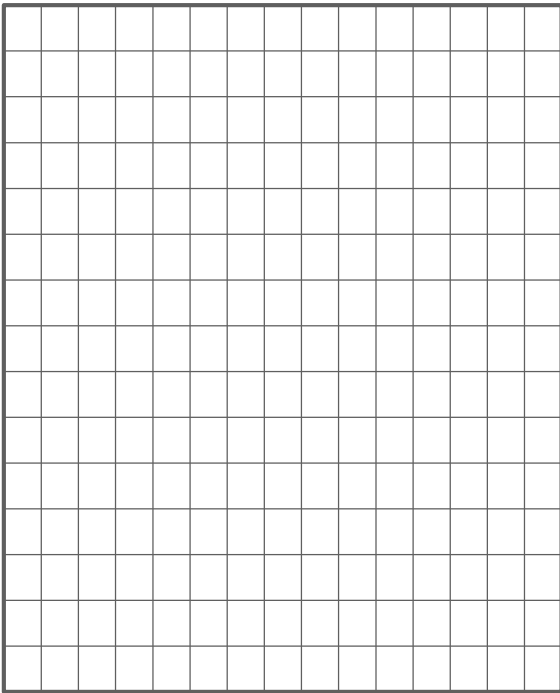


Table of Values:

x	y

GAS MILEAGE ANSWER KEY

Story:

Your car has 10 gallons of gas. You use up 1 gallon for every 20 miles you travel.

Equation:

$$y = -\frac{1}{20}x + 10$$

Initial Value:

10

Rate of Change:

$$-\frac{1}{20}$$

Graph:

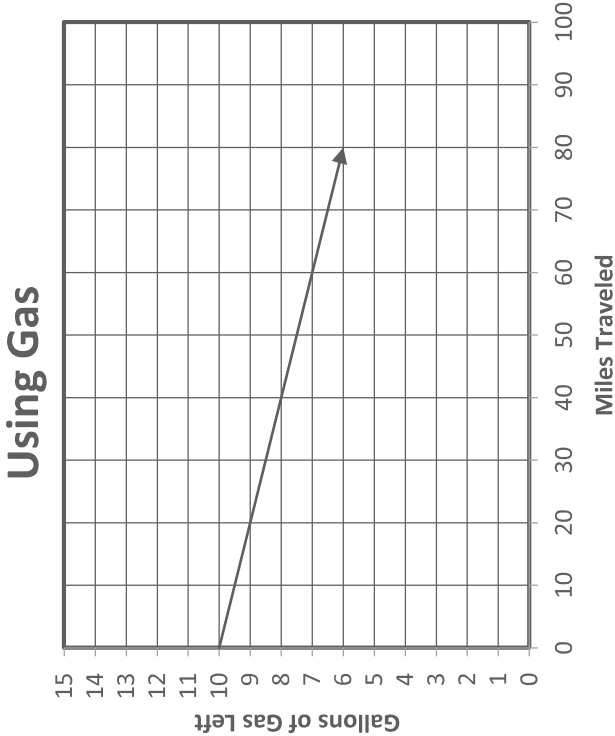


Table of Values:

x	y
0	10
20	9
40	8
60	7
80	6

PARTY GUESTS ANSWER KEY

Story:

To host a party at a local restaurant, you must pay \$90 to rent it and \$15 per guest.

Equation:

$$y = 15x + 90$$

Initial Value:

90

Rate of Change:

15 or $\frac{15}{1}$

Graph:

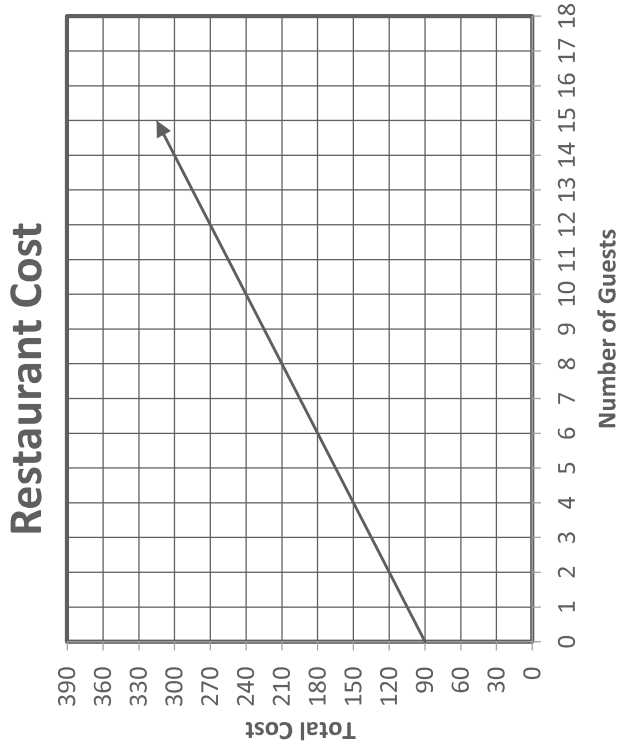


Table of Values:

x	y
0	90
3	135
6	180
9	225
12	270

TEMPERATURE TRENDS ANSWER KEY

Story:

The temperature is currently -5 degrees Fahrenheit. It is rising 2 degrees every 3 hours.

Equation:

$$y = \frac{2}{3}x - 5$$

Initial Value:

-5

Rate of Change:

$\frac{2}{3}$

Graph:

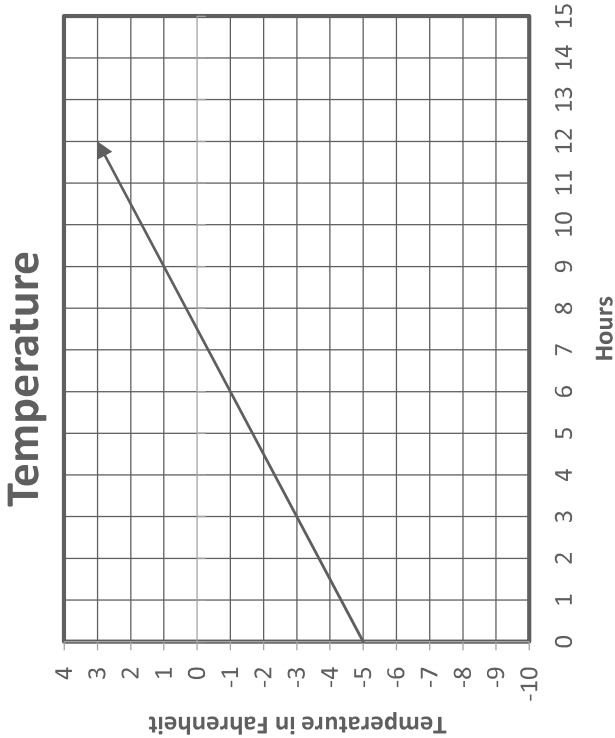


Table of Values:

x	y
0	-5
3	-3
6	-1
9	1
12	3

RIDES AT THE FAIR ANSWER KEY

Story:

To get into the fair, you must pay \$4.50. Each ride costs \$1.50.

Equation:

$$y = 1.50x + 4.50$$

Initial Value:

4.50

Rate of Change:

1.50 or $\frac{3}{2}$

Graph:

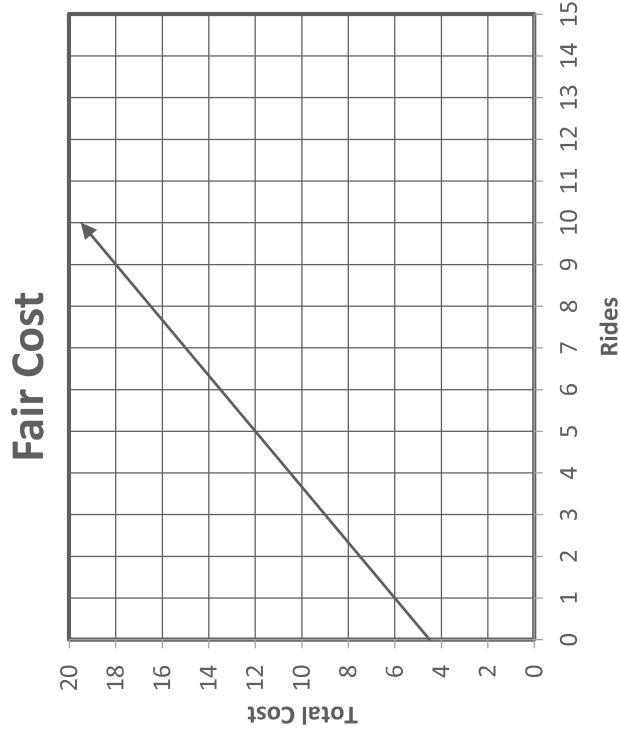


Table of Values:

x	y
0	4.50
2	7.50
5	12.00
8	16.50
10	19.50

LUNCH MONEY ANSWER KEY

Story:

You have an allowance to spend on lunch this week. You will spend the same amount each day, and you get to keep whatever is left at the end of the week. After two days, you have \$12.10 remaining. After five days, you have \$2.50 remaining.

Equation:

$$y = -3.20x + 18.50$$

Initial Value:

18.50

Rate of Change:

-3.20

Graph:

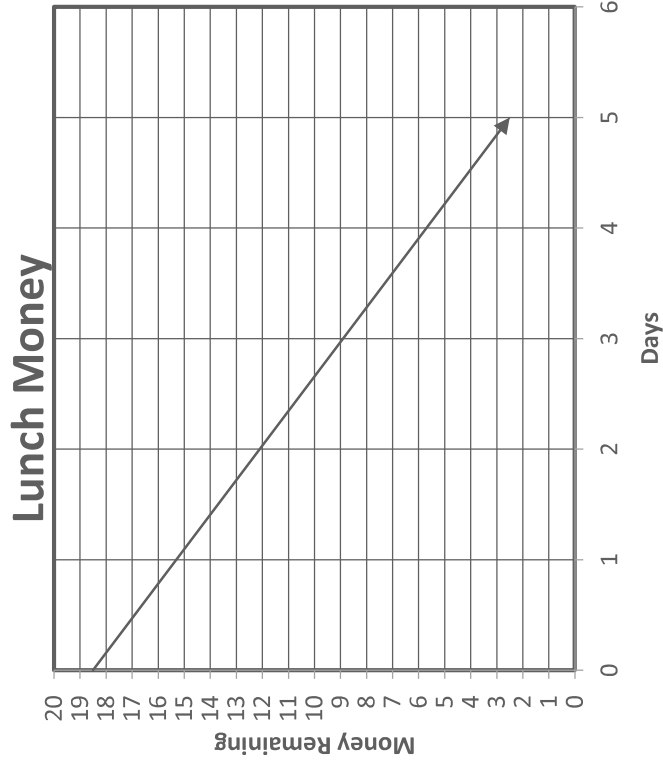


Table of Values:

x	y
0	18.50
1	15.30
2	12.10
3	8.90
4	5.70