

Cab Company

Name: _____
Date: _____ Period: _____

Real World Scenario:

A cab company charges \$2 for passengers to get into the vehicle. They then charges \$1.50 for each mile the cab goes.

Equation:

Graph:

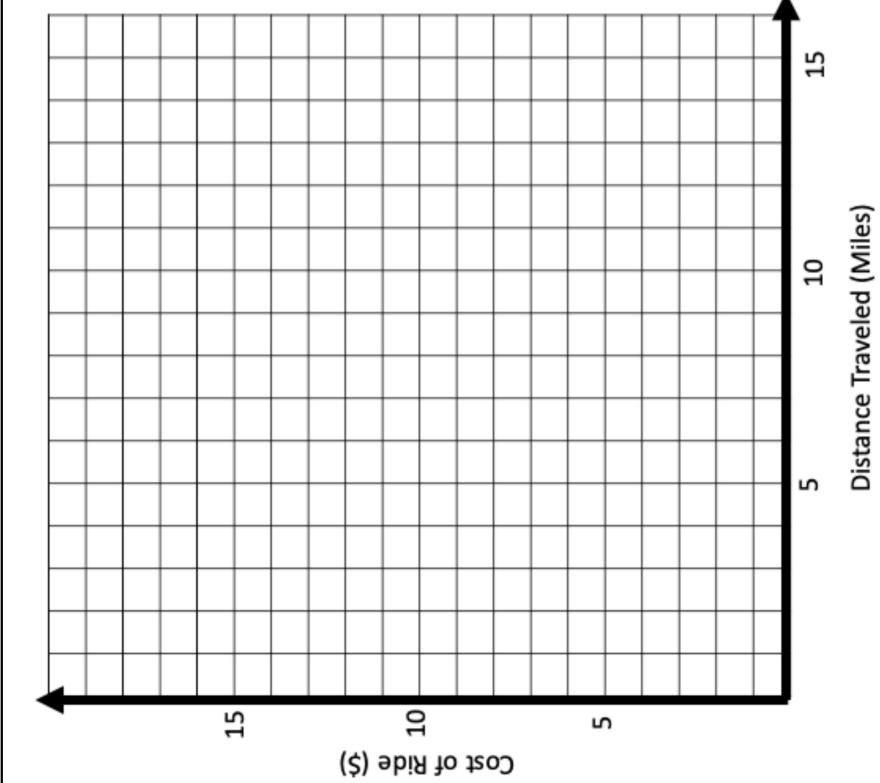


Table:

X	y
0	
1	
2	
3	
4	

Checking for Understanding:

- 1) A person needs to go 4 miles.
How much money will they end up paying?

- 2) A person spent \$5. How many miles were they in the cab for?

Brother's Allowance

Name: _____
Date: _____
Period: _____

Real World Scenario:

Your three year old brother originally had _____ dollars in his piggy bank. He earns _____ per week for doing his chores.

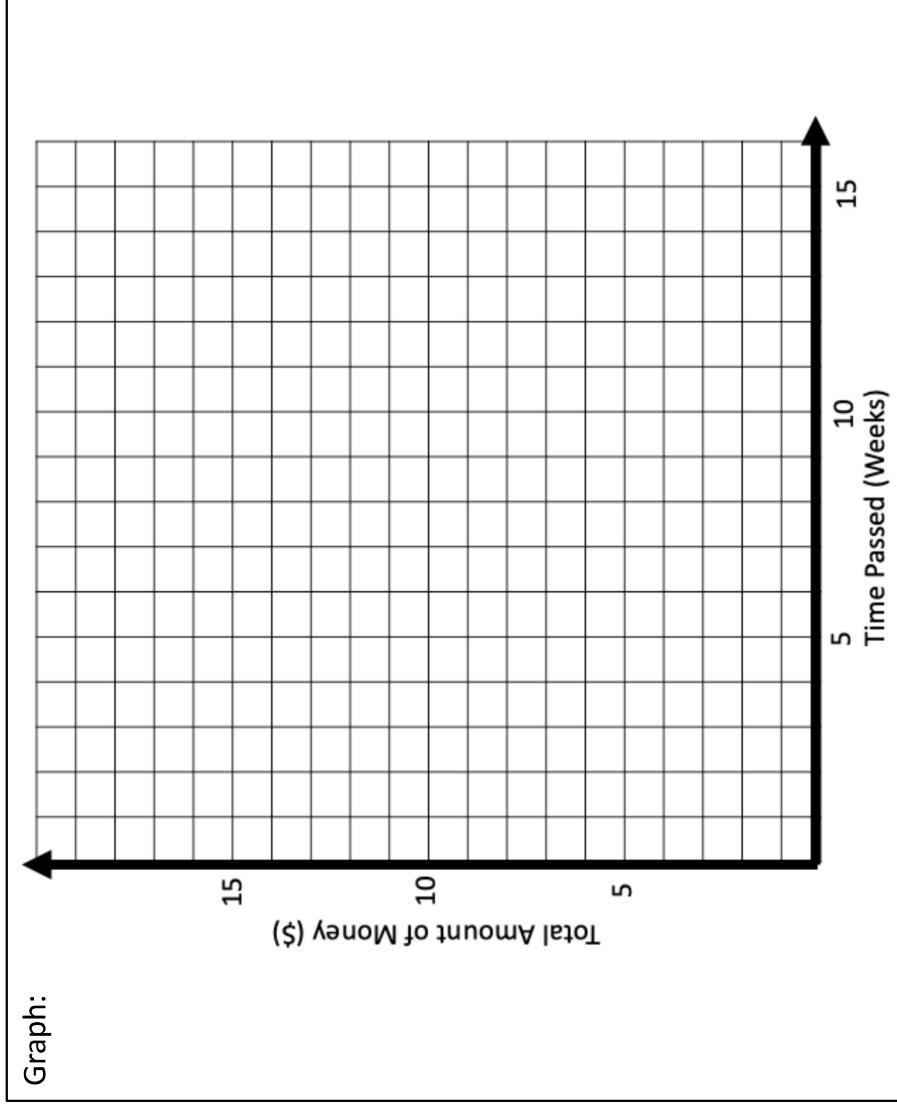
Equation:

$$y = \frac{3}{4}x + 4$$

Table:

X	y
0	
4	
8	
12	
16	

Graph:



Checking for Understanding:

- 1) After doing his chores for 6 weeks, how much money will your brother have in his bank account?

- 2) Your brother has \$13. How many weeks has he been doing his chores?

Planting a Tree

Name: _____
Date: _____
Period: _____

Real World Scenario:

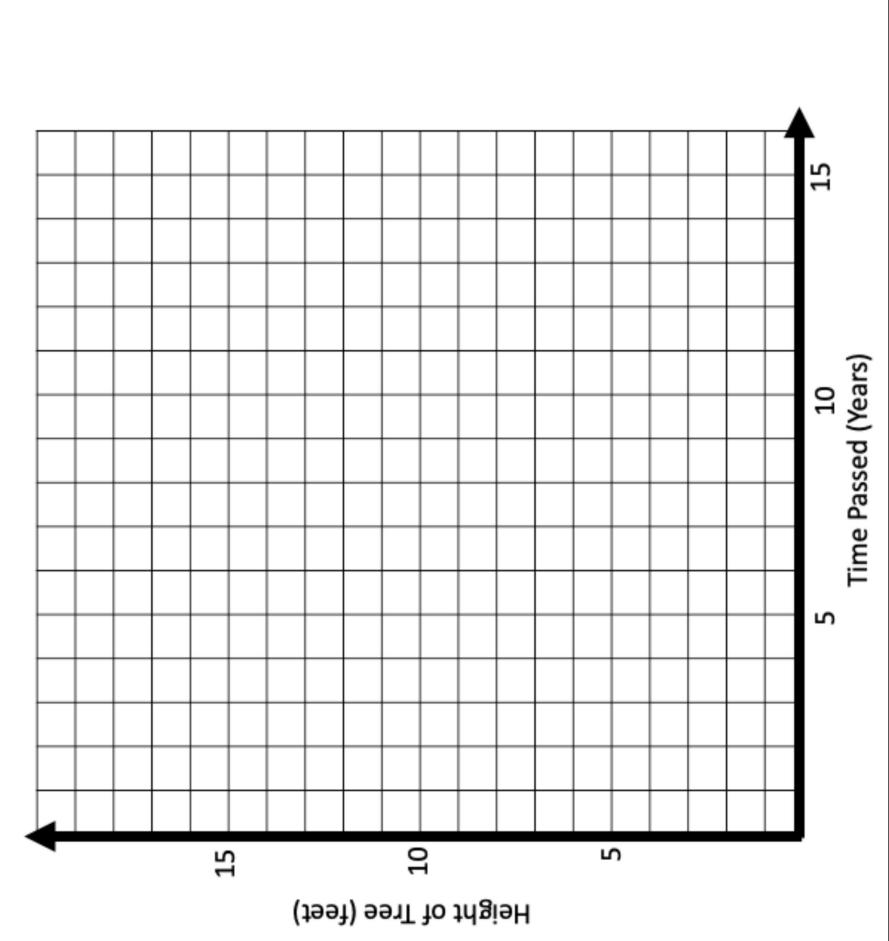
You plant a tree in early spring. When you planted the tree it was _____ feet tall. The tree grows at a constant rate. Every year it grows _____ feet.

Equation:

Table:

X	y
0	2
3	4
6	6
9	8
12	10

Graph:



Checking for Understanding:

- 1) After 7 years, how tall will the tree be?

- 2) How many years until the tree is 12 feet tall?

Snow Storm

Name: _____
Date: _____
Period: _____

Real World Scenario:

It is the middle of winter. There is originally _____ inches of snow on the ground when a blizzard begins. The snow falls at a constant rate. The rate at which the snow falls is _____ inches per hour.

Equation:

Graph:

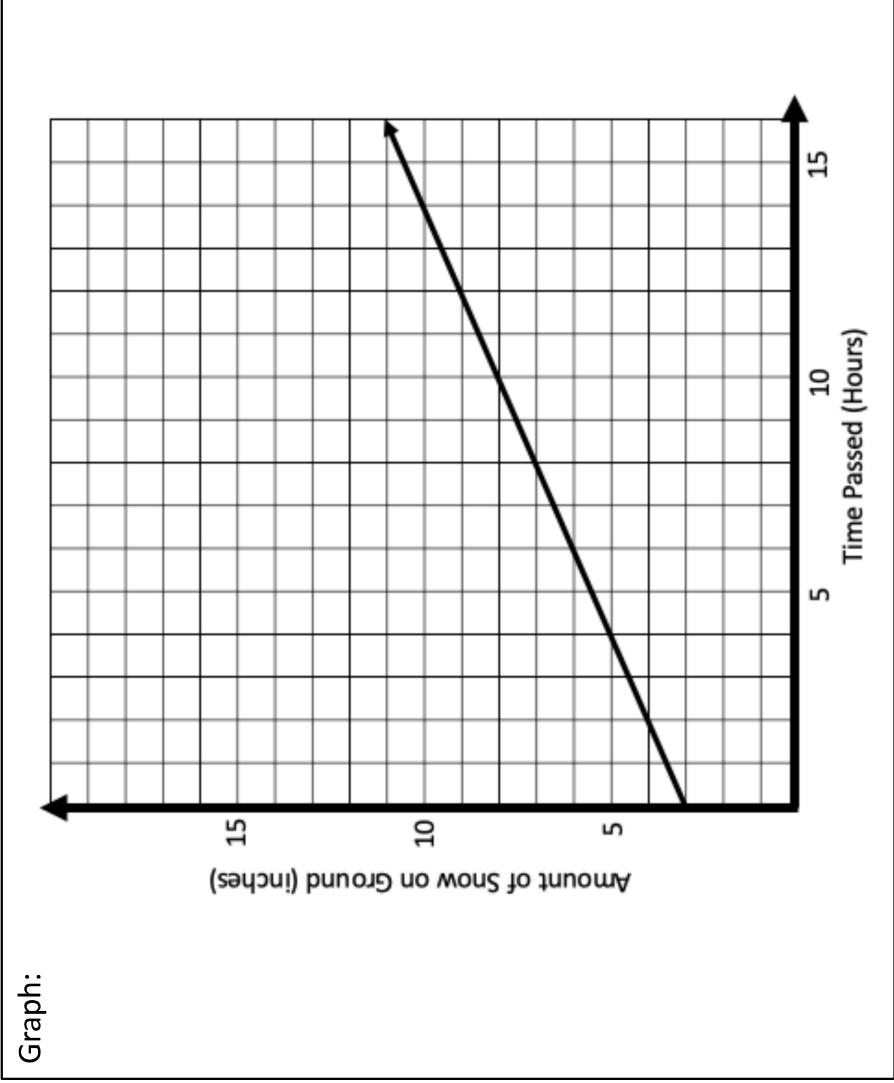


Table:

X	y
0	
2	
4	
6	
8	

Checking for Understanding:

- How much snow was on the ground when the blizzard started?

- After 11 hours, what is the total amount of snow on the ground?

Eating Ribs

Name: _____
Date: _____
Period: _____

Real World Scenario:

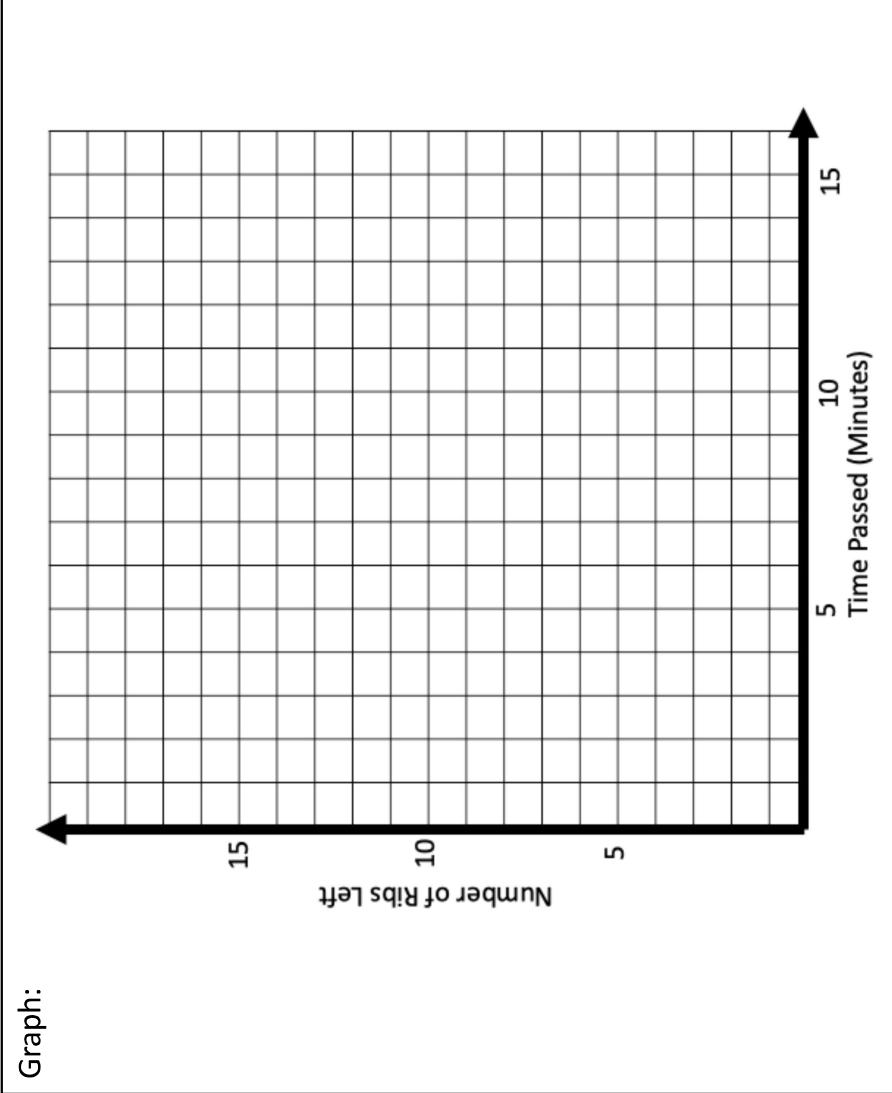
You LOVE ribs. You have a large plate of them and eat them at a constant rate. Originally, you had _____ ribs. You eat them a rate of _____ ribs per minute.

Equation:

Table:

X	y
0	20
2	16
4	12
6	8
8	4

Graph:



Checking for Understanding:

- 1) After eating ribs for 6 minutes, how many ribs do you have left to eat?

- 2) How long does it take you to eat all of your rib?

Arcade Trip

Name: _____
Date: _____
Period: _____

Real World Scenario:

The cost to play any game at an arcade is the same. Tommy has taken all of his money and gone to the arcade. He originally had _____ dollars. Each game costs _____.

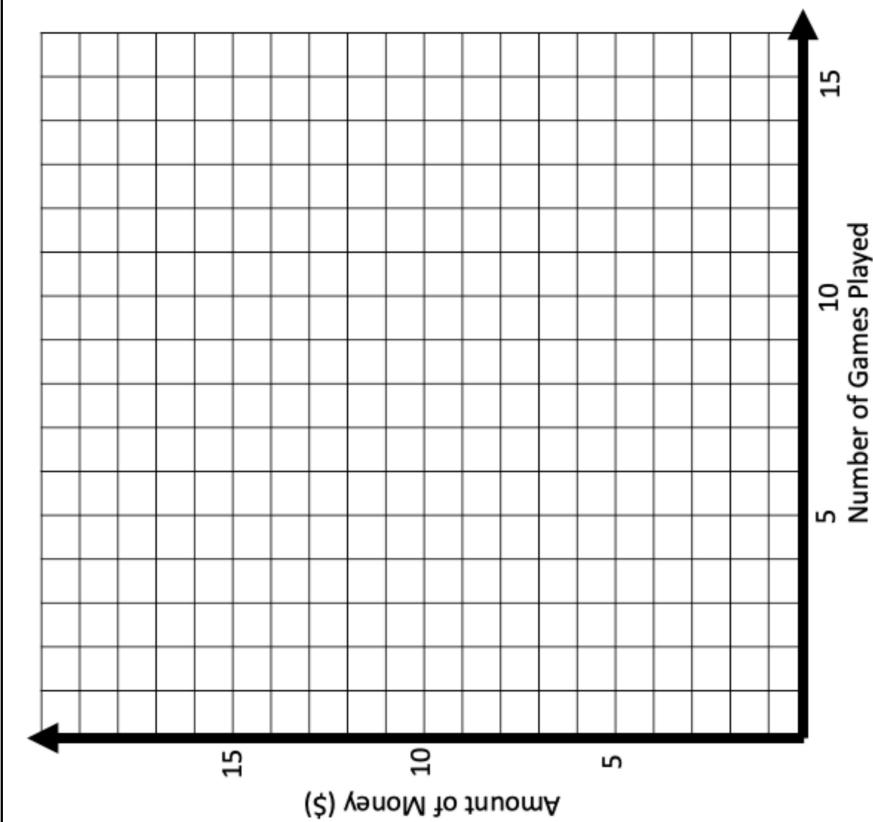
Equation:

$$y = -\frac{1}{2}x + 14$$

Table:

X	y
0	
1	
2	
3	
4	

Graph:



Checking for Understanding:

- 1) After playing 9 games, how much money will you have left?

- 2) How many games can you play until you run out of money?

Draining a Pool

Name: _____
Date: _____ Period: _____

Real World Scenario:

A 1600 gallon pool is being drained. It is being drained at a rate of 50 gallons per hour.

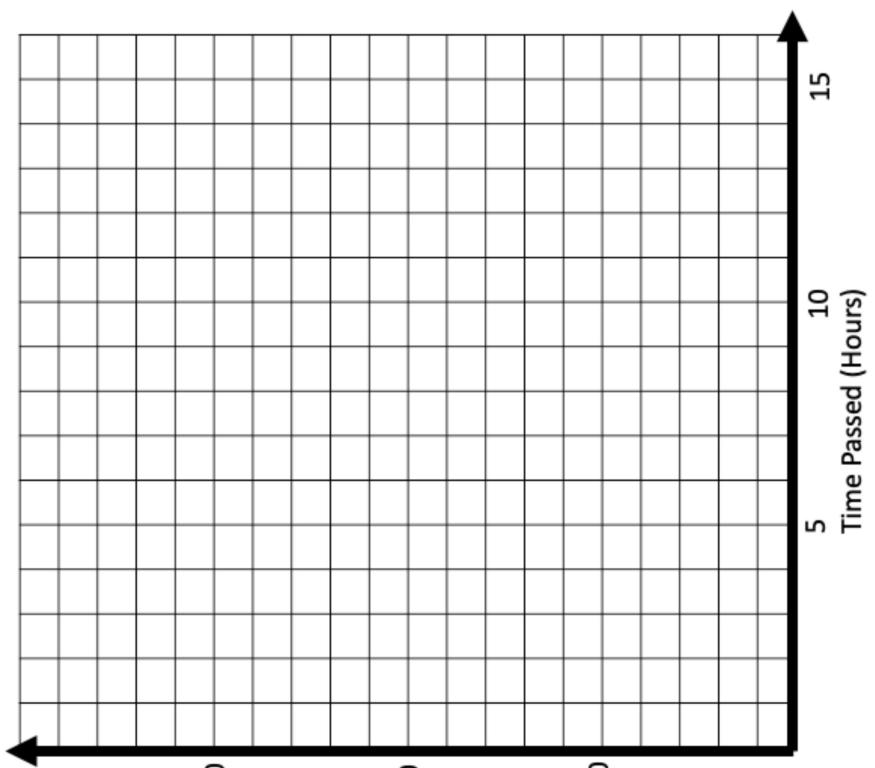
Equation:

X	y
0	
4	
8	
12	
16	

Table:

Graph:

Amount of Water Left in The Pool (gallons)



Checking for Understanding:

- After draining for 15 hours, how much water is left in the pool?

- How long does it take until the pool is completely empty?

Landing a Plane

Name: _____
Date: _____
Period: _____

Real World Scenario:

A plane is currently _____ feet above the ground when it begins to descend at a constant rate to land on the ground. It descends at a rate of _____ feet per minute.

Equation:

Graph:

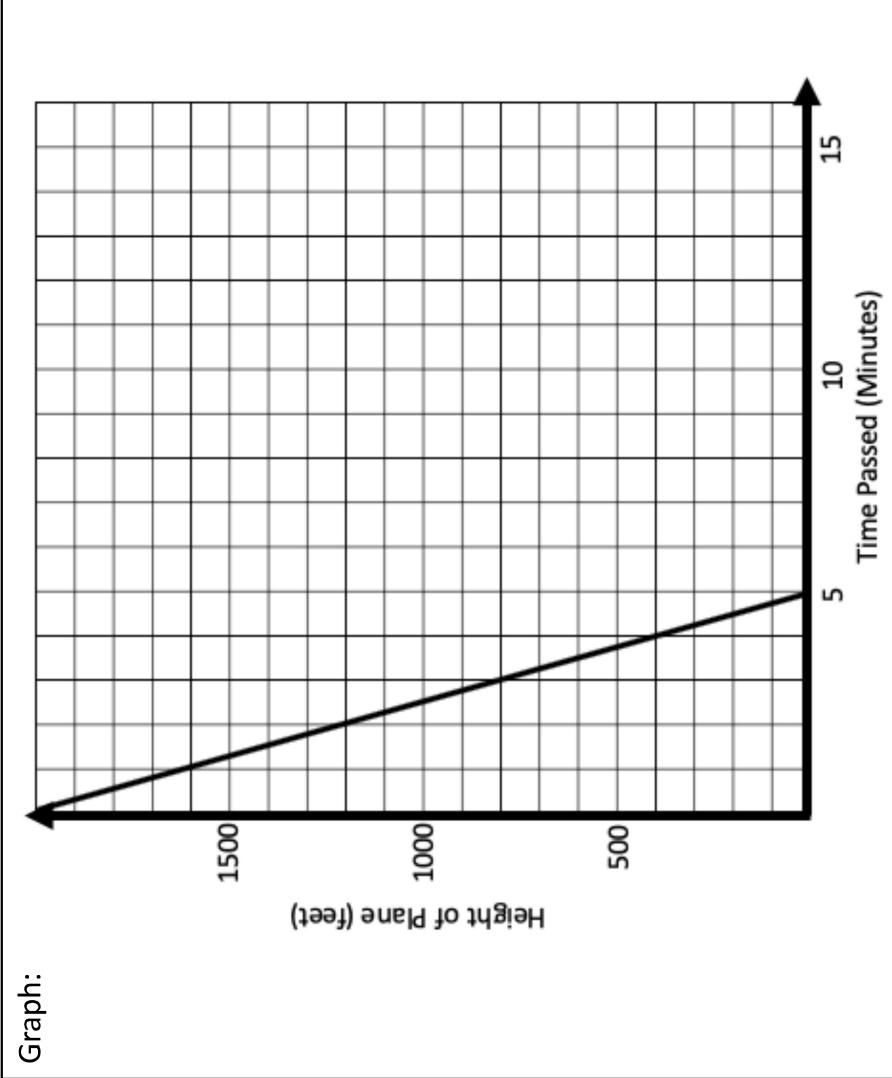


Table:

X	y
0	
1	
2	
3	
4	

Checking for Understanding:

- After descending for 3 minutes, how high is the plane still above the ground?

- How long does it take until the plane is on the ground?

Cab Company

Answer Key

Name: _____

Date: _____ Period: _____

Real World Scenario:

A cab company charges \$2 for passengers to get into the vehicle. They then charges \$1.50 for each mile the cab goes.

Equation:

$$y = \frac{3}{2}x + 2$$

Graph:

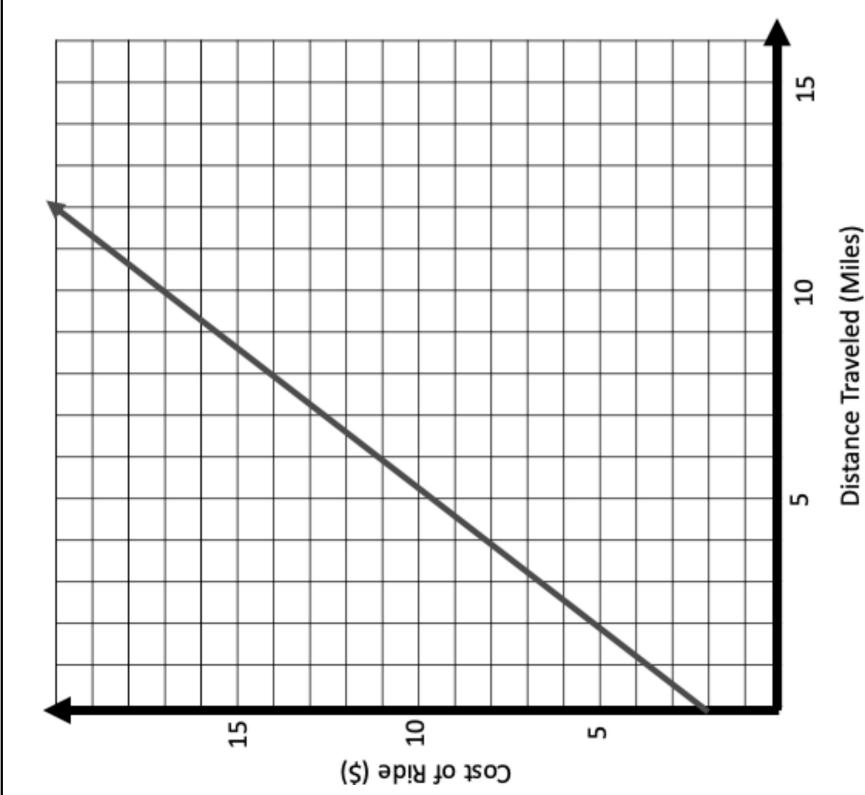


Table:

X	y
0	2
1	3.5
2	5
3	6.5
4	8

Checking for Understanding:

- 1) A person needs to go 4 miles.
How much money will they end up paying?

\$8

- 2) A person spent \$5. How many miles were they in the cab for?

2 miles

Brother's Allowance

Answer Key

Name: _____

Date: _____

Period: _____

Real World Scenario:

Your three year old brother originally had $\frac{4}{.75}$ dollars in his piggy bank. He earns $.75$ per week for doing his chores.

Equation:

$$y = \frac{3}{4}x + 4$$

Graph:

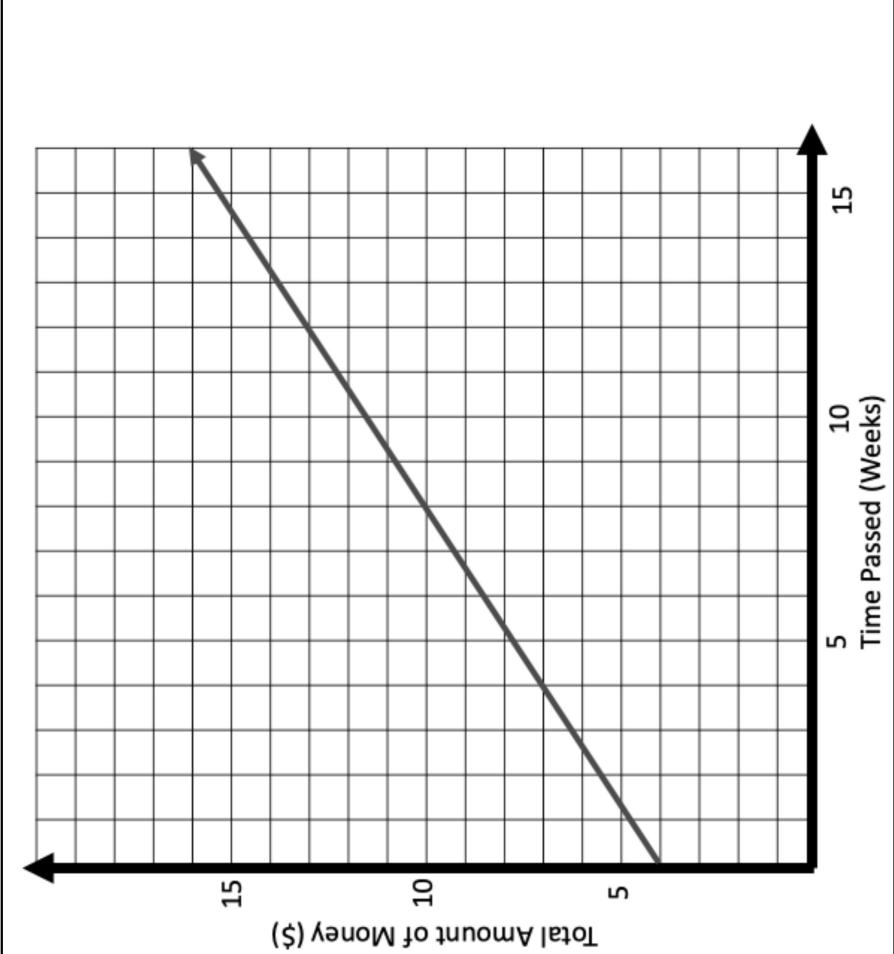


Table:

X	y
0	4
4	7
8	10
12	13
16	16

Checking for Understanding:

- After doing his chores for 6 weeks, how much money will your brother have in his bank account?

\$8.50

- Your brother has \$13. How many weeks has he been doing his chores?

12 weeks

Planting a Tree

Answer Key

Name: _____

Date: _____

Period: _____

Real World Scenario:

You plant a tree in early spring. When you planted the tree it was 2 feet tall. The tree grows at a constant rate. Every year it grows .67 feet.

Equation:

$$y = \frac{2}{3}x + 2$$

Graph:

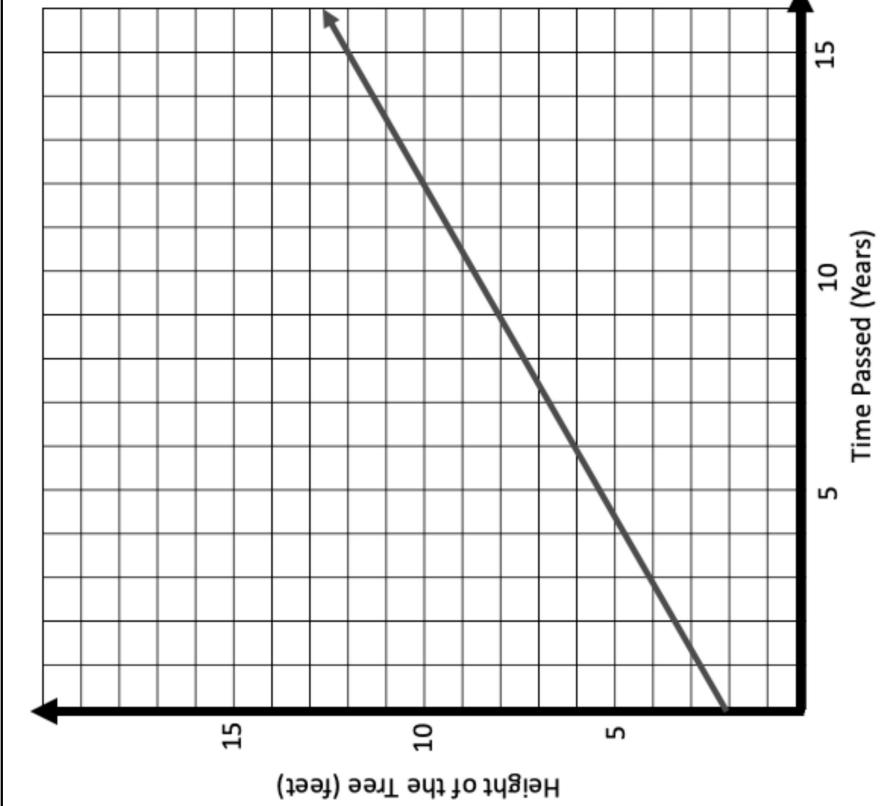


Table:

X	y
0	2
3	4
6	6
9	8
12	10

Checking for Understanding:

- 1) After 7 years, how tall will the tree be?

6.67 feet

- 2) How many years until the tree is 12 feet tall?

15 years

Snow Storm

Answer Key

Name: _____

Date: _____

Period: _____

Real World Scenario:

It is the middle of winter. There is originally 3 inches of snow on the ground when a blizzard begins. The snow falls at a constant rate. The rate at which the snow falls is .5 inches per hour.

Equation:

$$y = \frac{1}{2}x + 3$$

Graph:

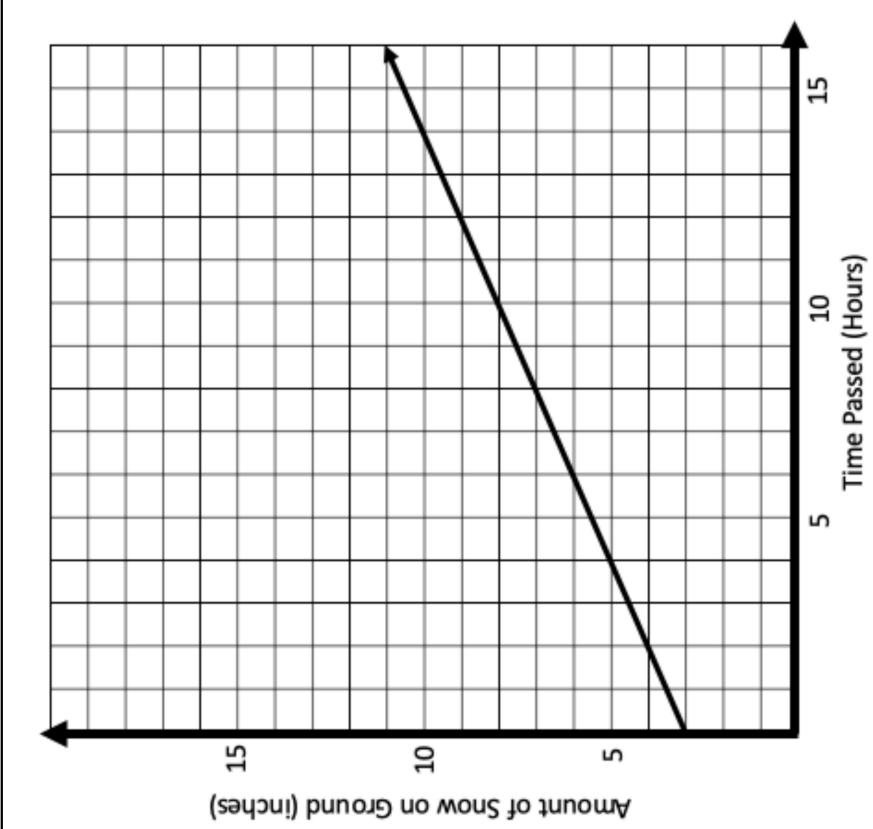


Table:

X	y
0	3
2	4
4	5
6	6
8	7

Checking for Understanding:

- 1) How much snow was on the ground when the blizzard started?
- 2) After 11 hours, what is the total amount of snow on the ground?

3 inches

8.5 inches

Eating Ribs

Answer Key

Name: _____

Date: _____ Period: _____

Real World Scenario:

You LOVE ribs. You have a large plate of them and eat them at a constant rate. Originally, you had 20 ribs. You eat them a rate of 2 ribs per minute.

Equation:

$$y = -2x + 20$$

Graph:

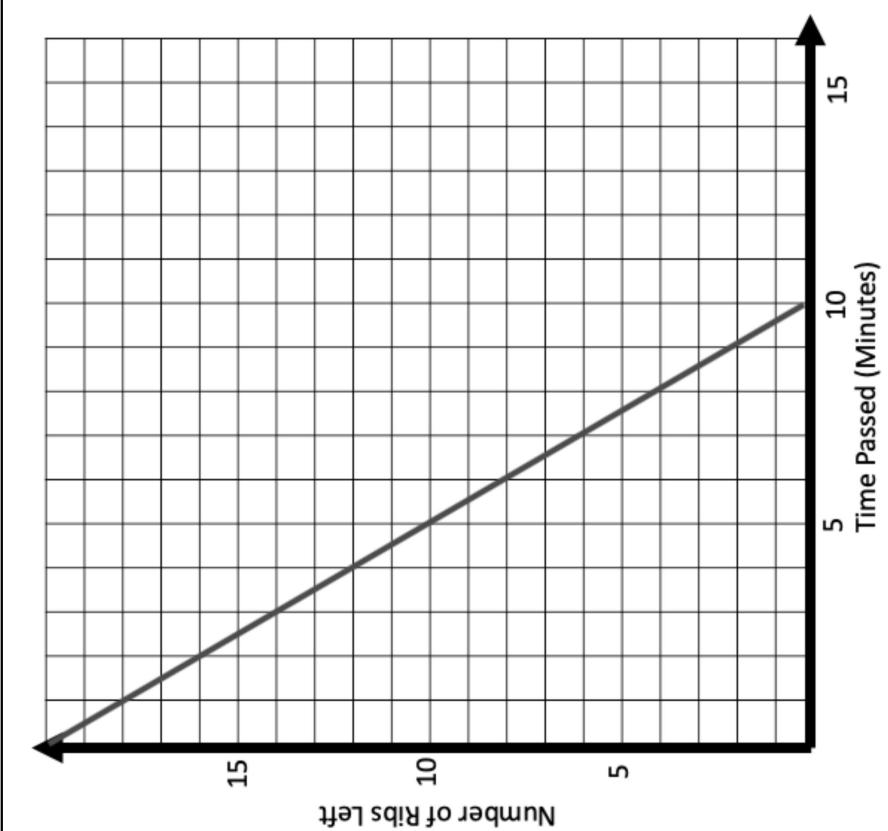


Table:

X	y
0	20
2	16
4	12
6	8
8	4

Checking for Understanding:

- After eating ribs for 6 minutes, how many ribs do you have left to eat?

8 ribs

- How long does it take you to eat all of your rib?

10 minutes

Arcade Trip

Answer Key

Name: _____

Date: _____

Period: _____

Real World Scenario:

The cost to play any game at an arcade is the same. Tommy has taken all of his money and gone to the arcade. He originally had 14 dollars. Each game costs \$.50.

Equation:

$$y = -\frac{1}{2}x + 14$$

Graph:

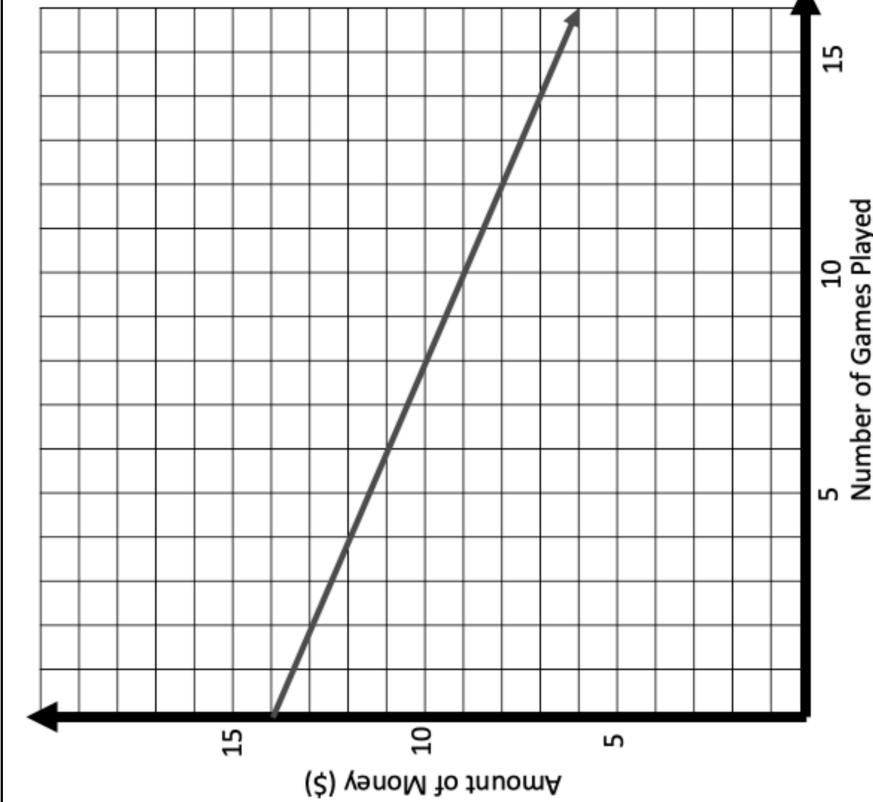


Table:

X	y
0	14
1	13.50
2	13
3	12.50
4	12

Checking for Understanding:

- After playing 9 games, how much money will you have left?

\$9.50

- How many games can you play until you run out of money?

28 games

Draining a Pool

Answer Key

Name: _____

Date: _____

Period: _____

Real World Scenario:

A 1600 gallon pool is being drained. It is being drained at a rate of 50 gallons per hour.

Equation:

$$y = -50x + 1600$$

Graph:

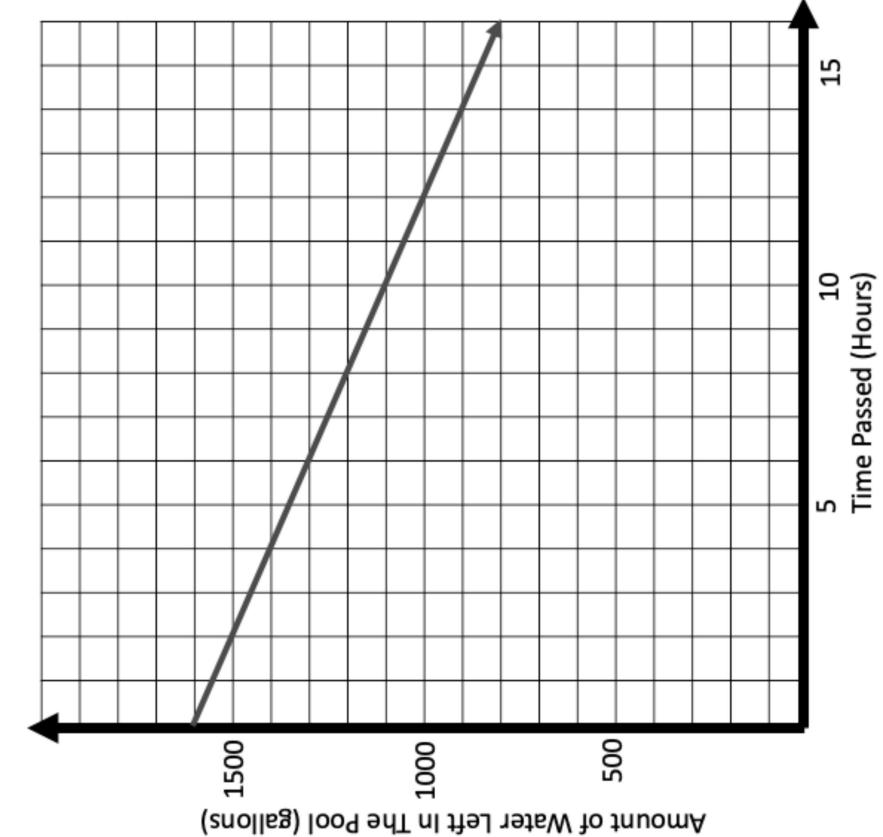


Table:

X	y
0	1600
4	1400
8	1200
12	1000
16	800

Checking for Understanding:

- 1) After draining for 15 hours, how much water is left in the pool?
- 2) How long does it take until the pool is completely empty?

850 gallons

32 hours

Landing a Plane

Name: _____ Answer Key

Date: _____

Period: _____

Real World Scenario:

A plane is currently $\frac{2000}{400}$ feet above the ground when it begins to descend at a constant rate to land on the ground. It descends at a rate of 400 feet per minute.

Equation:

$$y = -400x + 2000$$

Graph:

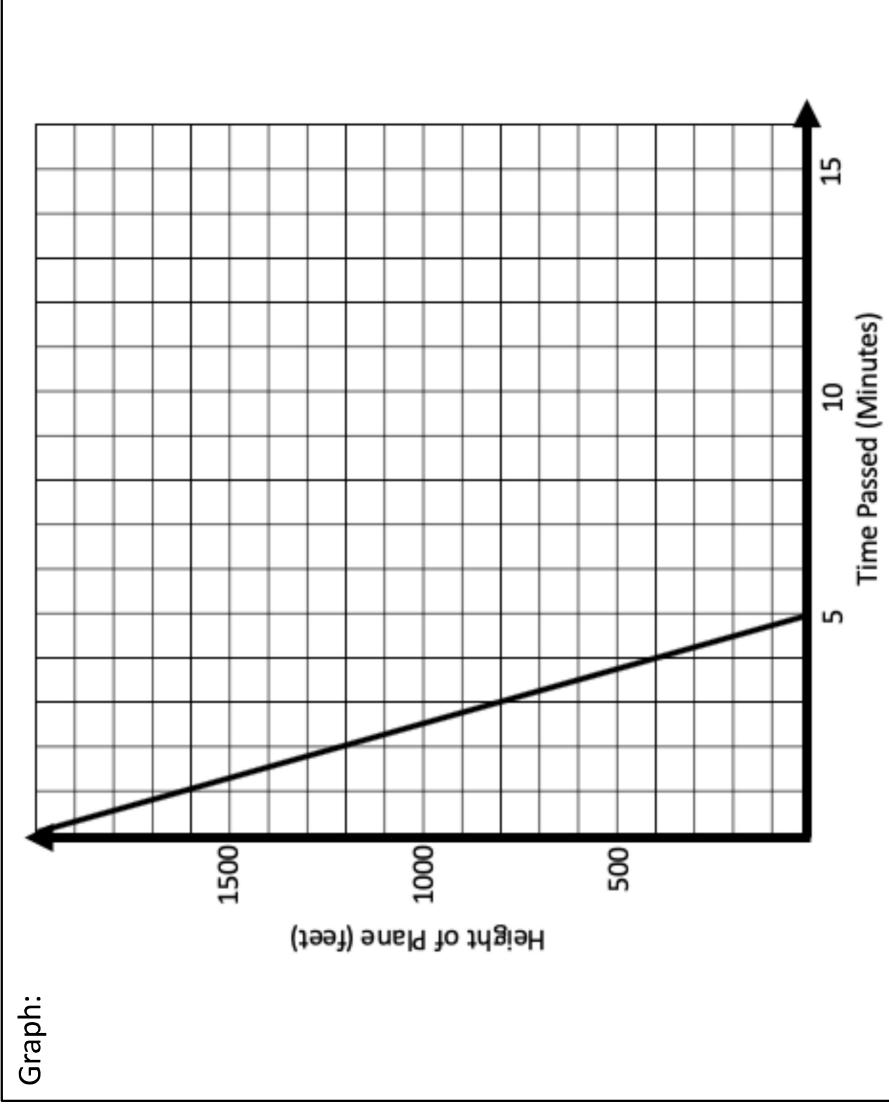


Table:

X	y
0	2000
1	1600
2	1200
3	800
4	400

Checking for Understanding:

- After descending for 3 minutes, how high is the plane still above the ground?

800 feet

- How long does it take until the plane is on the ground?

5 minutes

Your Story

Name: _____
Date: _____ Period: _____

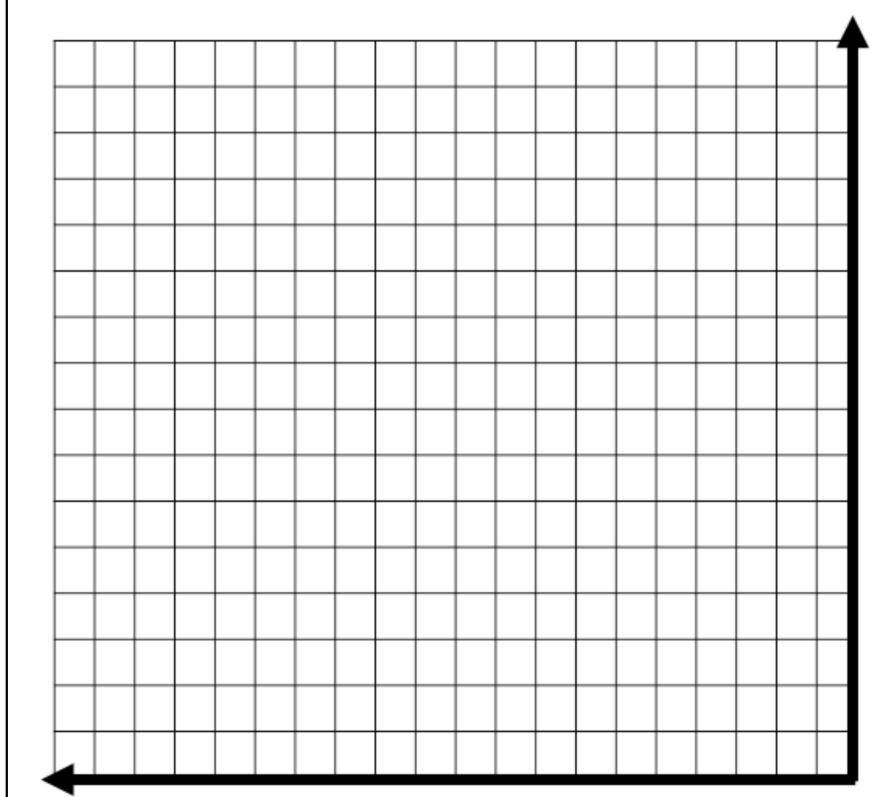
Real World Scenario:

Equation:

Table:

X	y

Graph:



Checking for Understanding:

1)

2)

Your Story

Name: _____
Date: _____ Period: _____

Answer Key

Real World Scenario:	Equation:	Graph:	Table:	Checking for Understanding:																
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