

1. You start with 100 dollars. Every day, you give away 10 dollars and gain no dollars.

Verbal/Pictorial Description

The graph of the function contains the point (,). When the value of _____ increases by _____ unit(s), the value of _____ increases/decreases by _____ units.

Table/List of Ordered Pairs

independent variable	dependent variable

Identify Parts of Interest

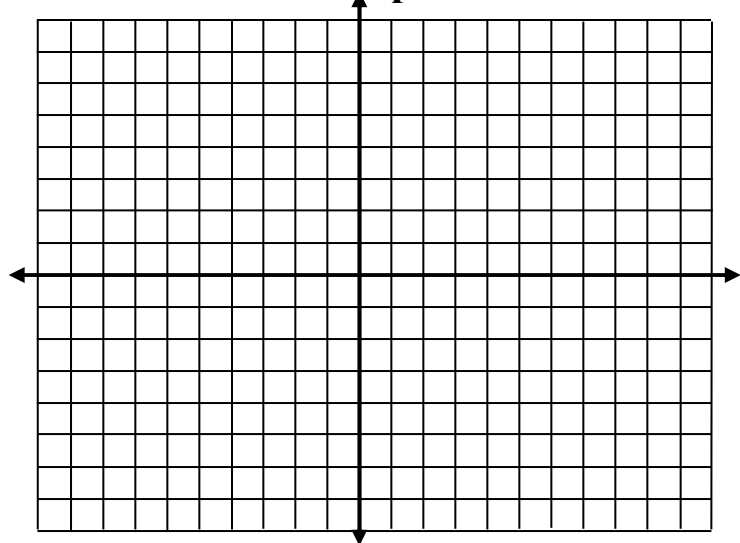
independent variable represents _____

dependent variable represents _____

Slope with units = _____

slope represents _____

Graph



Equation of Line Slope-Intercept Form:

Extrapolation: How much do you have after eight days?

intercept along vertical axis

represents _____

and equals _____

intercept along horizontal axis

represents _____

and equals _____

2. Big Pine Outfitters charges a base fee of \$40 and \$10 per hour of use of a canoe.

Verbal/Pictorial Description

The graph of the function contains the point (,). When the value of _____ increases by _____ unit(s), the value of _____ increases/decreases by _____ units.

Table/List of Ordered Pairs

independent variable	dependent variable

Identify Parts of Interest

independent variable represents _____

dependent variable represents _____

Slope with units = _____

slope represents _____

intercept along vertical axis

represents _____

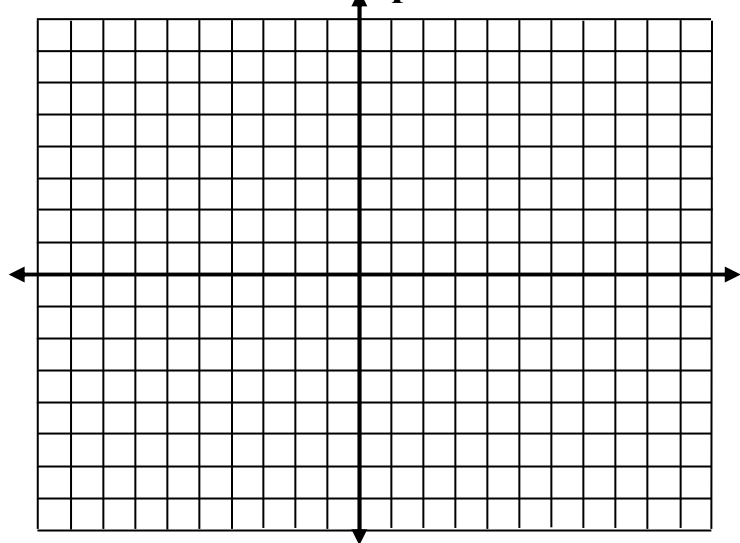
and equals _____

intercept along horizontal axis

represents _____

and equals _____

Graph



Equation of Line Slope-Intercept Form:

Extrapolation: How much do you owe after twelve hours?

3. You start at 2 meters from a motion detector. You then walk away from the motion detector, walking another meter away every second. Your graph should represent the displacement versus time.

Verbal/Pictorial Description

The graph of the function contains the point (,). When the value of _____ increases by _____ unit(s), the value of _____ increases/decreases by _____ units.

Table/List of Ordered Pairs

independent variable	dependent variable

Identify Parts of Interest

independent variable represents _____

dependent variable represents _____

Slope with units = _____

slope represents _____

intercept along vertical axis

represents _____

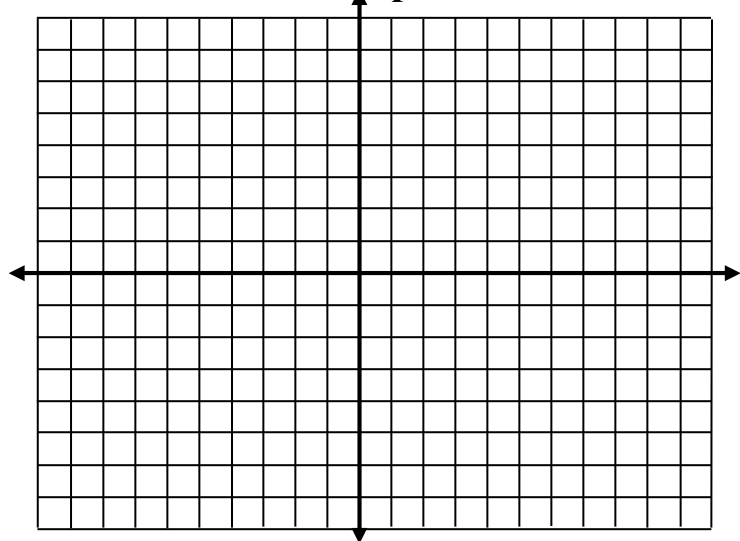
and equals _____

intercept along horizontal axis

represents _____

and equals _____

Graph



Equation of Line Slope-Intercept Form:

Extrapolation: How far are you from the motion detector after 15 seconds?

4. A cell phone company charges a monthly flat fee of \$20 plus \$0.20 per minute of use.

Verbal/Pictorial Description

The graph of the function contains the point (,). When the value of _____ increases by _____ unit(s), the value of _____ increases/decreases by _____ units.

Table/List of Ordered Pairs

independent variable	dependent variable

Identify Parts of Interest

independent variable represents _____

dependent variable represents _____

Slope with units = _____

slope represents _____

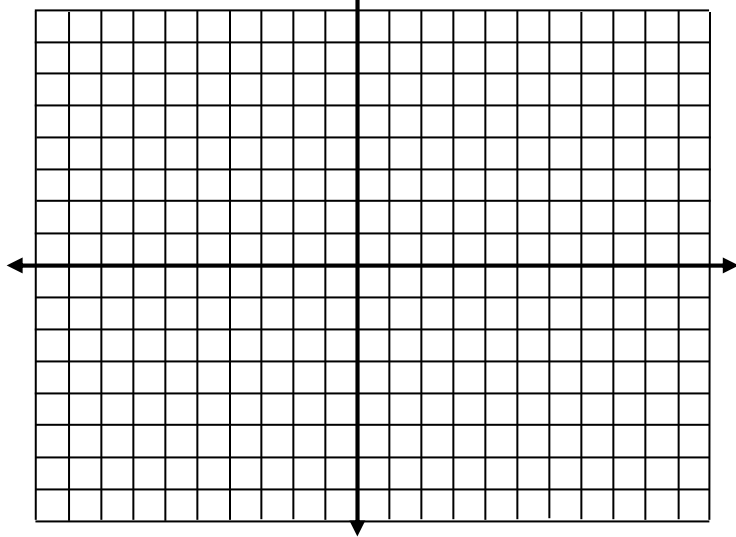
intercept along vertical axis represents _____

and equals _____

intercept along horizontal axis represents _____

and equals _____

Graph



Equation of Line Slope-Intercept Form:

Extrapolation: How much do you owe after 300 minutes of use in a particular month?

5. A hot air balloon is resting on field that is 20 feet above sea level. The balloon is released and the height in feet above sea level of the balloon versus time is recorded in the table below.

Verbal/Pictorial Description

The graph of the function contains the point (,). When the value of _____ increases by _____ unit(s), the value of _____ increases/decreases by _____ units.

Table/List of Ordered Pairs

independent variable time (min)	dependent variable height (feet)
0	20
1	70
2	120
3	170
4	220

Identify Parts of Interest

independent variable represents _____

dependent variable represents _____

Slope with units = _____

slope represents _____

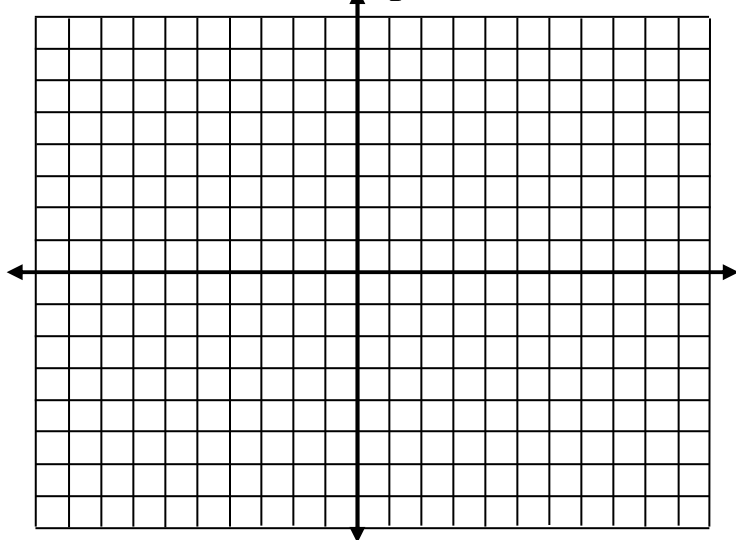
intercept along vertical axis represents _____

and equals _____

intercept along horizontal axis represents _____

and equals _____

Graph



Equation of Line Slope-Intercept Form:

Extrapolation: How high is the balloon above sea level after 7 minutes?

6. A candle is 6 inches tall after burning for 1 hour. After 3 hours, the candle is $5\frac{1}{2}$ inches tall. Assume that the height of the candle versus time is a linear graph.

Verbal/Pictorial Description

The graph of the function contains the point (,). When the value of _____ increases by _____ unit(s), the value of _____ increases/decreases by _____ units.

Table/List of Ordered Pairs

independent variable	dependent variable

Identify Parts of Interest

independent variable represents _____

dependent variable represents _____

Slope with units = _____

slope represents _____

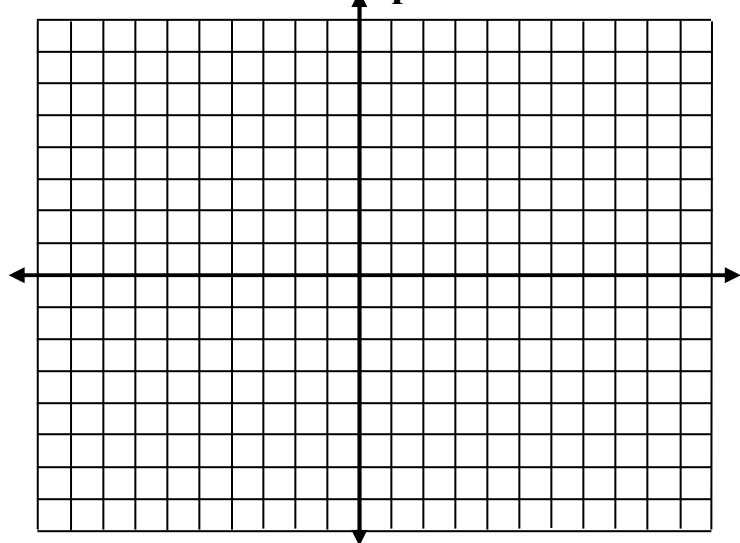
intercept along vertical axis represents _____

and equals _____

intercept along horizontal axis represents _____

and equals _____

Graph



Equation of Line Slope-Intercept Form:

Extrapolation:
How much do you owe after 300 minutes of use in a particular month?

7. A pump removes water from a 1000 gallon pool. The following table lists the amount of water in the pool versus time.

Verbal/Pictorial Description

The graph of the function contains the point (,). When the value of _____ increases by _____ unit(s), the value of _____ increases/decreases by _____ units.

Table/List of Ordered Pairs

independent variable time (min)	dependent variable water (gallons)
1	950
3	850
5	750
7	650
9	550

Identify Parts of Interest

independent variable
represents _____

dependent variable
represents _____

Slope with units = _____

slope represents _____

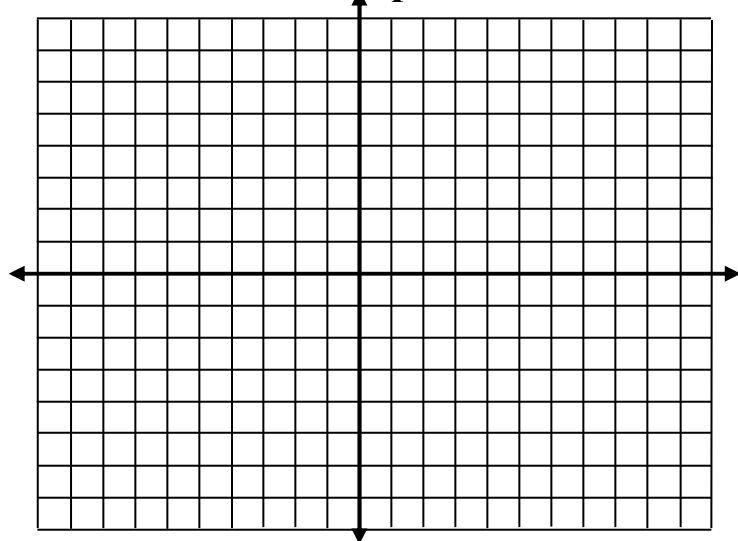
intercept along vertical axis
represents _____

and equals _____

intercept along horizontal axis
represents _____

and equals _____

Graph



Equation of Line Slope-Intercept Form:

Extrapolation: How much water remains after 10 minutes?

8. A ball is thrown upward from the ceiling of a building. Its velocity versus time are recorded in the table.

Verbal Description

The graph of the function contains the point (,). When the value of _____ increases by _____ unit(s), the value of _____ increases/decreases by _____ units.

Table/List of Ordered Pairs

independent variable time (seconds)	dependent variable velocity (miles/hour)
1	44
2	22
3	0
4	-22
5	-44

Identify Parts of Interest

independent variable represents _____

dependent variable represents _____

Slope with units = _____

slope represents _____

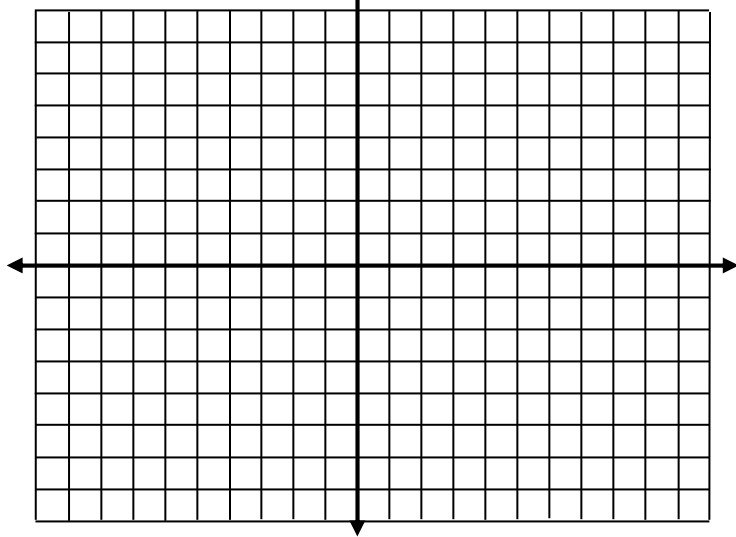
intercept along vertical axis represents _____

and equals _____

intercept along horizontal axis represents _____

and equals _____

Graph



Equation of Line Slope-Intercept Form:

Extrapolation: What is the velocity of the ball after 7 seconds?
