

I can complete a function table that relates the independent variable to the dependent variable and write an algebraic equation rule for the table.

Writing an Equation Rule for a Table

Example

Use the table to relate the independent variable x to the dependent variable y . First, drag tiles to describe the relationship in words. Then drag tiles to form an equation.

x	y
0	0
1	3
2	6
3	9
4	12
5	15

Words
↓
to
Equation

The number in the x -column = The number in the y -column

=

Got It?

x	y
0	0
2	8
4	16
6	24
8	32
10	40

x	y
0	4
1	5
2	6
3	7
4	8

Weeks	Kilograms
2	1
4	2
6	3
8	4

Exit Ticket:

x	y

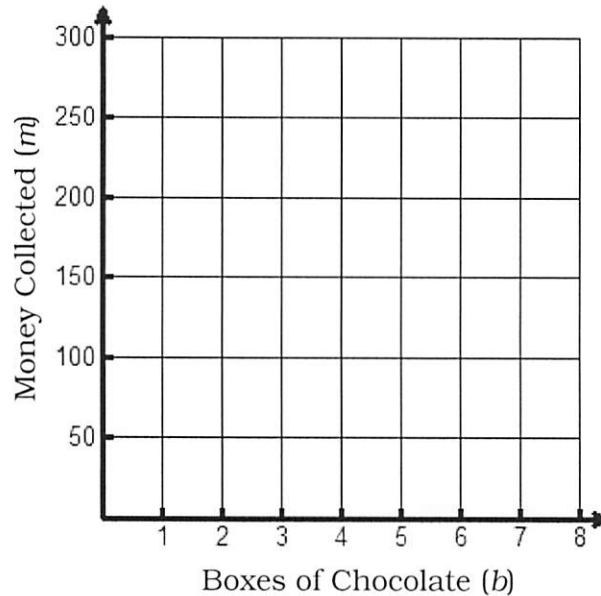
x					
y					

 **REAL-WORLD EXAMPLE**

Burger's 6th graders are trying to fundraise money for their DC field trip. The student council decided to sell boxes of chocolate bars. Each bar sells for \$1.50 and each box contains 20 bars. Below is a partial table of money collected for different numbers of boxes sold.

Table:

Boxes of Chocolate (b)	Money
1	30
2	
3	
4	
5	150
6	
7	
8	

Graph:

Equation: relates boxes of chocolate (b) to money collected (m).

Work Space:

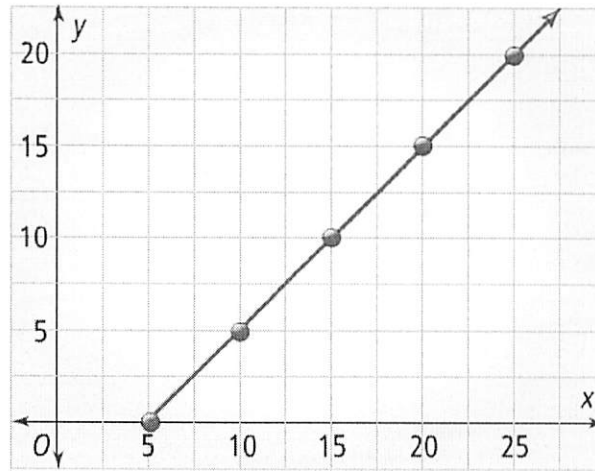
How much money will be collected if 100 boxes of Candy are sold?

How many boxes need to be sold to reach the goal of earning \$750?

Example

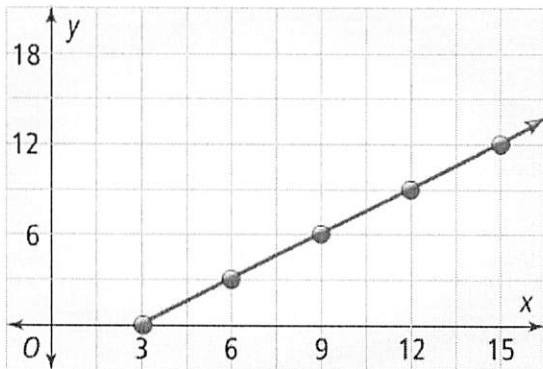
- Use the graph to write an equation that represents the relationship between x and y . Complete the table to start.

x	y



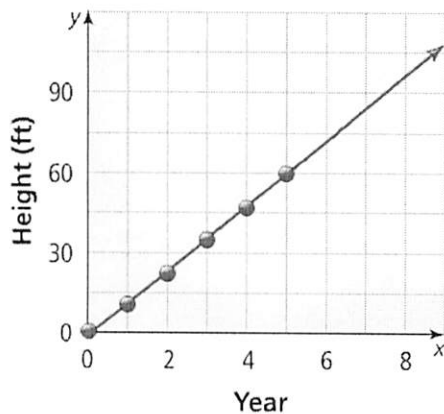
Got It?

- Use the graph to write an equation that represents the relationship between x and y .



Got It?

- Use the graph to predict how tall a kapok tree will be in Year 8.



I can complete a function table that relates the independent variable to the dependent variable and write an algebraic equation rule for the table.

Writing an Equation Rule for a Table

Example

Use the table to relate the independent variable x to the dependent variable y . First, drag tiles to describe the relationship in words. Then drag tiles to form an equation.

x	y
0	0
1	3
2	6
3	9
4	12
5	15

Words

The number in the x -column

times

3

=

The number in the y -column

Equation

x

\cdot

3

=

y

Got It?

x	y
0	0
2	8
4	16
6	24
8	32
10	40

x	y
0	4
1	5
2	6
3	7
4	8

w Weeks	k Kilograms
2	1
4	2
6	3
8	4

$x \cdot 4 = y$

$x + 4 = y$

$w \div 2 = k$

Exit Ticket:

x	y

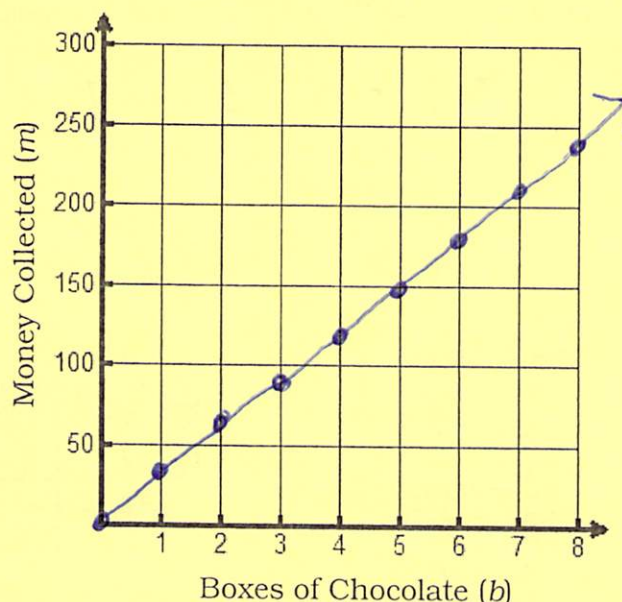
x					
y					

 **REAL-WORLD EXAMPLE**

Burger's 6th graders are trying to fundraise money for their DC field trip. The student council decided to sell boxes of chocolate bars. Each bar sells for \$1.50 and each box contains 20 bars. Below is a partial table of money collected for different numbers of boxes sold.

Table:

Boxes of Chocolate (b)	Money
1	30
2	60
3	90
4	120
5	150
6	180
7	210
8	240

Graph:

Equation: relates boxes of chocolate (b) to money collected (m).

$$b \cdot 30 = m$$

Work Space:

How much money will be collected if 100 boxes of Candy are sold?

$$b \cdot 30 = m$$

$$100 \cdot 30 = m$$

$$3000 = m$$

\$3000

How many boxes need to be sold to reach the goal of earning \$750?

$$b \cdot 30 = m$$

$$b \cdot 30 = 750$$

$$\begin{array}{r} \cancel{30} \\ \div 30 \end{array} \quad \begin{array}{r} \cancel{30} \\ \div 30 \end{array}$$

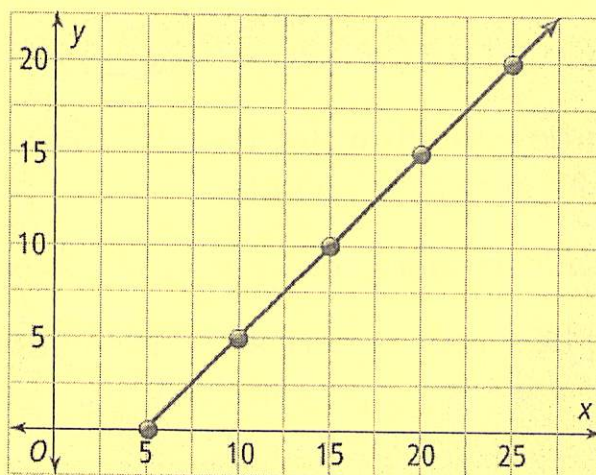
$$b = 25$$

25 boxes

Example

- Use the graph to write an equation that represents the relationship between x and y . Complete the table to start.

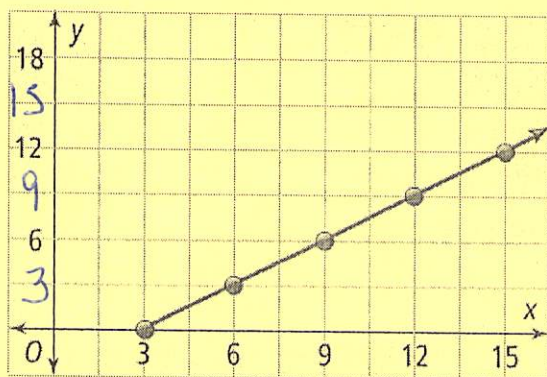
x	y
5	0
10	5
15	10
20	15
25	20



$$x - 5 = y$$

Got It?

- Use the graph to write an equation that represents the relationship between x and y .

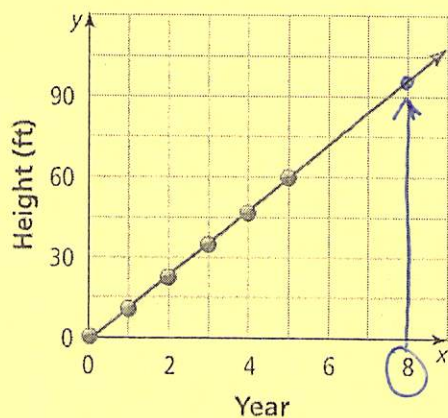


x	y
3	0
6	3
9	6
12	9
15	12

$$x - 3 = y$$

Got It?

- Use the graph to predict how tall a kapok tree will be in Year 8.



About
95 ft tall