

Name:

## Determine the constant of proportionality for each table. Express your answer as y = kx

Ex)	Pounds of Beef Jerky (x)	5	4	10	2	6
	Price in dollars (y)	55	44	110	22	66

For every pound of beef jerky it cost \_\_\_11\_\_ dollars.

1)	Cans of Paint (x)	3	6	10	9	7
	Bird Houses Painted (y)	12	24	40	36	28

For every can of paint you could paint bird houses.

2)	Chocolate Bars (x)	5	7	4	9	3
	Calories (y)	1,870	2,618	1,496	3,366	1,122

Every chocolate bar has calories.

3)	Time in minute (x)	9	2	5	3	7
	Distance traveled in meters (y)	108	24	60	36	84

Every minute meters are travelled.

4)	Lawns Mowed (x)	6	7	5	2	10
	Dollars Earned (y)	252	294	210	84	420

For every lawn mowed \_\_\_\_\_\_ dollars were earned.

5)	Time in minute (x)	3	7	9	6	4
	Gallons of Water Used (y)	120	280	360	240	160

Every minute \_\_\_\_\_ gallons of water are used.

<b>6</b> )	Boxes of Candy (x)	8	6	7	4	10
	Pieces of Candy (y)	144	108	126	72	180

For every box of candy you get \_\_\_\_\_ pieces.

7)	Votes for Lana (x)	10	8	5	6	4
	Votes for George (y)	420	336	210	252	168

For Every vote for Lana there were \_\_\_\_\_\_ votes for George.

8)	Glasses of Lemonade (x)	2	6	10	5	3
	Lemons Used (y)	10	30	50	25	15

For every glass of lemonade there were \_\_\_\_\_ lemons used.

## **Answers**

	11
Ex.	y = 11x



Determine the constant of proportionality for each table. Express your answer as y = kx

Ex)	I

Pounds of Beef Jerky (x)	5	4	10	2	6
Price in dollars (y)	55	44	110	22	66

For every pound of beef jerky it cost 11 dollars.

1)	Cans of Paint (x)	3	6	10	9	7
	Bird Houses Painted (y)	12	24	40	36	28

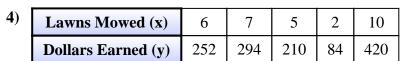
For every can of paint you could paint 4 bird houses.

2)	Chocolate Bars (x)	5	7	4	9	3
	Calories (y)	1,870	2,618	1,496	3,366	1,122

Every chocolate bar has 374 calories.

3)	Time in minute (x)	9	2	5	3	7
	Distance traveled in meters (y)	108	24	60	36	84

Every minute 12 meters are travelled.



For every lawn mowed 42 dollars were earned.

5)	Time in minute (x)	3	7	9	6	4
	Gallons of Water Used (y)	120	280	360	240	160

Every minute 40 gallons of water are used.

<b>6</b> )	Boxes of Candy (x)	8	6	7	4	10
	Pieces of Candy (y)	144	108	126	72	180

For every box of candy you get 18

<b>7</b> )	Votes for Lana (x)	10	8	5	6	4
	Votes for George (y)	420	336	210	252	168

For Every vote for Lana there were 42 votes for George.

8)	Glasses of Lemonade (x)	2	6	10	5	3
	Lemons Used (y)	10	30	50	25	15

For every glass of lemonade there were 5 lemons used.

## **Answers**

$$\mathbf{E}_{\mathbf{x}}$$
.  $\mathbf{y} = \mathbf{1}\mathbf{1}\mathbf{x}$ 

$$\mathbf{y} = \mathbf{4}\mathbf{x}$$

$$y = 374x$$

$$y = 12x$$

$$y = 42x$$

5. 
$$y = 40x$$

$$y = 18x$$

$$y = 42x$$

$$y = 5x$$