

Identifying Constant of Proportionality (Tables)

Name:

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

Ex)	Boxes of Candy (x)	4	2	7	6	5	
	Pieces of Candy (y)	72	36	126	108	90	

For every box of candy you get 18 pieces.

1)	Glasses of Lemonade (x)	3	10	4	5	6
	Lemons Used (y)	9	30	12	15	18

For every glass of lemonade there were lemons used.

2)	Phone Sold (x)	2	6	3	8	9
	Money Earned (y)	90	270	135	360	405

Every phone sold earns dollars.

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

4)	Time in minute (x)	4	10	2	8	6
	Gallons of Water Used (y)	132	330	66	264	198

Every minute __ gallons of water are used.

5)	Lawns Mowed (x)	10	2	6	9	8
	Dollars Earned (y)	410	82	246	369	328

For every lawn mowed dollars were earned.

6)	Pounds of Beef Jerky (x)	4	6	3	7	8
	Price in dollars (y)	40	60	30	70	80

For every pound of beef jerky it cost __ dollars.

7)	Time in minute (x)	7	5	2	4	3
	Distance traveled in meters (y)	91	65	26	52	39

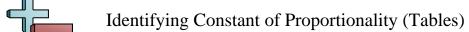
Every minute __ meters are travelled.

8)	Votes for Debby (x)	4	6	3	2	9
	Votes for Dave (y)	72	108	54	36	162

For Every vote for Debby there were ___ votes for Dave.

Answers

$$\mathbf{y} = \mathbf{18x}$$



Name:

Answer Key

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

Boxes of Candy (x)	4	2	7	6	5
Pieces of Candy (y)	72	36	126	108	90

For every box of candy you get 18 pieces.



Glasses of Lemonade (x)	3	10	4	5	6
Lemons Used (y)	9	30	12	15	18

For every glass of lemonade there were 3 lemons used.



Phone Sold (x)	2	6	3	8	9
Money Earned (y)	90	270	135	360	405

Every phone sold earns 45 dollars.



3)	Cans of Paint (x)	3	8	2	4	9
	Bird Houses Painted (y)	12	32	8	16	36

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



4)	Time in minute (x)	4	10	2	8	6
	Gallons of Water Used (y)	132	330	66	264	198

Every minute 33 gallons of water are used.



()	Lawns Mowed (x)	10	2	6	9	8
	Dollars Earned (y)	410	82	246	369	328

For every lawn mowed 41 dollars were earned.

6)

)	Pounds of Beef Jerky (x)	4	6	3	7	8
	Price in dollars (y)	40	60	30	70	80

For every pound of beef jerky it cost 10 dollars.

7)

)	Time in minute (x)	7	5	2	4	3
	Distance traveled in meters (y)	91	65	26	52	39

Every minute 13 meters are travelled.

Votes for Debby (x)	4	6	3	2	9
Votes for Dave (y)	72	108	54	36	162

For Every vote for Debby there were 18 votes for Dave.

Answers

$$Ex. y = 18x$$

$$y = 3x$$

$$\mathbf{y} = \mathbf{45x}$$

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

$$y = 33x$$

$$\mathbf{y} = \mathbf{41x}$$

$$_{6.} \quad y = 10x$$

$$y = 13x$$

$$y = 18x$$