

Identifying Constant of Proportionality (Tables) Name:

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

Enemies Destroyed (x)	2	6	8	4	3
Points Earned (y)	96	288	384	192	144

Every enemy destroyed earns 48 points.

1)	Time in minute (x)	4	10	5	9	8
	Gallons of Water Used (y)	60	150	75	135	120

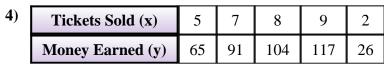
Every minute _____ gallons of water are used.

2)	Concrete Blocks (x)	7	4	8	3	2
	weight in kilograms (y)	56	32	64	24	16

Every concrete block weighs kilograms.

3)	Votes for Haley (x)	3	4	8	10	5
	Votes for Sam (y)	84	112	224	280	140

For Every vote for Haley there were votes for Sam.



Every ticket sold dollars are earned.

5)	Boxes of Candy (x)	4	7	10	8	6
	Pieces of Candy (y)	68	119	170	136	102

For every box of candy you get pieces.

6)	Time in minute (x)	5	6	10	2	3
	Distance traveled in meters (y)	85	102	170	34	51

Every minute _____ meters are travelled.

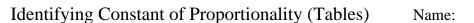
7)	Chocolate Bars (x)	4	7	2	9	8
	Calories (y)	1,360	2,380	680	3,060	2,720

Every chocolate bar has _____ calories.

8)	Glasses of Lemonade (x)	9	4	8	3	5
	Lemons Used (y)	45	20	40	15	25

For every glass of lemonade there were lemons used.

Answers



Answer Kev

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

Ex)

Enemies Destroyed (x)	2	6	8	4	3
Points Earned (y)	96	288	384	192	144

Every enemy destroyed earns 48 points.

1)	Time in minute (x)	4	10	5	9	8
	Gallons of Water Used (y)	60	150	75	135	120

Every minute ___15__ gallons of water are used.

2)	Concrete Blocks (x)	7	4	8	3	2
	weight in kilograms (y)	56	32	64	24	16

Every concrete block weighs ___ 8 ___ kilograms.

3)	Votes for Haley (x)	3	4	8	10	5
	Votes for Sam (y)	84	112	224	280	140

For Every vote for Haley there were 28 votes for Sam.

4)	Tickets Sold (x)	5	7	8	9	2
	Money Earned (y)	65	91	104	117	26

Every ticket sold 13 dollars are earned.

5)	Boxes of Candy (x)	4	7	10	8	6
	Pieces of Candy (y)	68	119	170	136	102

For every box of candy you get 17 pieces.

6)	Time in minute (x)	5	6	10	2	3
	Distance traveled in meters (y)	85	102	170	34	51

Every minute 17 meters are travelled.

7)	Chocolate Bars (x)	4	7	2	9	8
	Calories (y)	1,360	2,380	680	3,060	2,720

Every chocolate bar has 340 calories.

8)	Glasses of Lemonade (x)	9	4	8	3	5
	Lemons Used (y)	45	20	40	15	25

For every glass of lemonade there were 5 lemons used.

Answers

$$Ex. \quad \mathbf{y} = \mathbf{48x}$$

1.
$$y = 15x$$

$$y = 8x$$

$$y = 28x$$

$$y = 13x$$

$$5. \quad \mathbf{y} = \mathbf{17x}$$

$$\mathbf{y} = \mathbf{17x}$$

$$y = 340x$$

$$\mathbf{y} = \mathbf{5}\mathbf{x}$$