

Identifying Constant of Proportionality (Tables) Name:

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

Ex) Pounds of Beef Jerky (x) 2 9 10 3 6

Price in dollars (y) 22 99 110 33 66

For every pound of beef jerky it cost 11 dollars.

1)	Time in minute (x)	10	5	2	8	4
	Distance traveled in meters (y)	100	50	20	80	40

Every minute \_\_\_\_\_ meters are travelled.

2)	Chocolate Bars (x)	10	5	3	2	9
	Calories (y)	2,020	1,010	606	404	1,818

Every chocolate bar has calories.

3)	<b>Enemies Destroyed (x)</b>	3	2	4	5	6
	Points Earned (y)	129	86	172	215	258

Every enemy destroyed earns \_\_\_\_\_ points.

4)	Lawns Mowed (x)	7	4	3	9	2
	Dollars Earned (y)	273	156	117	351	78

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

5)	Phone Sold (x)	5	2	4	3	10
	Money Earned (y)	190	76	152	114	380

Every phone sold earns dollars.

<b>6</b> )	Cans of Paint (x)	6	3	8	9	2
	Bird Houses Painted (y)	30	15	40	45	10

For every can of paint you could paint bird houses.

7)	Time in minute (x)	2	7	8	10	4
	Gallons of Water Used (y)	96	336	384	480	192

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

8)	Concrete Blocks (x)	9	5	6	3	4
	weight in kilograms (y)	72	40	48	24	32

Every concrete block weighs \_\_\_\_\_ kilograms.

## **Answers**

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

1.

2. \_\_\_\_\_

3.

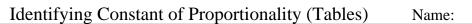
4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8.



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

Ex)	Pounds of Beef Jerky (x)	2	9	10	3	6
	Price in dollars (y)	22	99	110	33	66

For every pound of beef jerky it cost 11 dollars.

1)	Time in minute (x)	10	5	2	8	4
	Distance traveled in meters (y)	100	50	20	80	40

Every minute 10 meters are travelled.

2)	Chocolate Bars (x)	10	5	3	2	9
	Calories (y)	2,020	1,010	606	404	1,818

Every chocolate bar has 202 calories.

3)	<b>Enemies Destroyed (x)</b>	3	2	4	5	6
	Points Earned (y)	129	86	172	215	258

Every enemy destroyed earns 43

<b>4</b> )	Lawns Mowed (x)	7	4	3	9	2
	Dollars Earned (y)	273	156	117	351	78

For every lawn mowed 39 dollars were earned.

<b>5</b> )	Phone Sold (x)	5	2	4	3	10
	Money Earned (y)	190	76	152	114	380

Every phone sold earns 38 dollars.

<b>6</b> )	Cans of Paint (x)	6	3	8	9	2
	Bird Houses Painted (y)	30	15	40	45	10

For every can of paint you could paint 5 bird houses.

7)	Time in minute (x)	2	7	8	10	4
	Gallons of Water Used (y)	96	336	384	480	192

Every minute 48 gallons of water are used.

8)	Concrete Blocks (x)	9	5	6	3	4
	weight in kilograms (y)	72	40	48	24	32

Every concrete block weighs 8 kilograms.

## <u>Answers</u>

Ex. 
$$y = 11x$$

$$y = 10x$$

$$y = 202x$$

$$y = 43x$$

$$4. \quad \mathbf{y} = \mathbf{39x}$$

$$_{5.} \quad y = 38x$$

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

$$\mathbf{y} = \mathbf{48x}$$

$$y = 8x$$