Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Tickets Sold (x)	9	4	2	8	5
Money Earned (y)	90	40	20	80	50

Every ticket sold 10 dollars are earned.

1)

Enemies Destroyed (x)	7	3	6	5	4
Points Earned (y)	308	132	264	220	176

Every enemy destroyed earns __ points.

2)

Votes for Emily (x)	3	6	5	8	2
Votes for Victor (y)	60	120	100	160	40

For Every vote for Emily there were __ votes for Victor.

3)

Phone Sold (x)	4	7	3	8	9
Money Earned (y)	72	126	54	144	162

Every phone sold earns __ dollars.

4)

Lawns Mowed (x)	9	4	2	8	3
Dollars Earned (y)	387	172	86	344	129

For every lawn mowed __ dollars were earned.

5)

Time in minute (x)	10	9	2	5	3
Gallons of Water Used (y)	460	414	92	230	138

Every minute __ gallons of water are used.

6)

Time in minute (x)	4	7	8	9	6
Distance traveled in meters (y)	104	182	208	234	156

Every minute __ meters are travelled.

7)

Glasses of Lemonade (x)	9	7	6	8	10
Lemons Used (y)	27	21	18	24	30

For every glass of lemonade there were _ lemons used.

8)

Chocolate Bars (x)	8	5	2	4	6
Calories (y)	2,960	1,850	740	1,480	2,220

Every chocolate bar has ___ calories.

Answers

Ex. y = 10x

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

Identifying Constant of Proportionality (Tables) Name: **Answer Key**

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

Ex)

Tickets Sold (x)	9	4	2	8	5
Money Earned (y)	90	40	20	80	50

Every ticket sold 10 dollars are earned.

1)

Enemies Destroyed (x)	7	3	6	5	4
Points Earned (y)	308	132	264	220	176

Every enemy destroyed earns 44 points.

2)

Votes for Emily (x)	3	6	5	8	2
Votes for Victor (y)	60	120	100	160	40

For Every vote for Emily there were 20 votes for Victor.

3)

Phone Sold (x)	4	7	3	8	9
Money Earned (y)	72	126	54	144	162

Every phone sold earns 18 dollars.

4)

Lawns Mowed (x)	9	4	2	8	3
Dollars Earned (y)	387	172	86	344	129

For every lawn mowed 43 dollars were earned.

5)

Time in minute (x)	10	9	2	5	3
Gallons of Water Used (y)	460	414	92	230	138

Every minute 46 gallons of water are used.

6)

Time in minute (x)	4	7	8	9	6
Distance traveled in meters (y)	104	182	208	234	156

Every minute 26 meters are travelled.

7)

Glasses of Lemonade (x)	9	7	6	8	10
Lemons Used (y)	27	21	18	24	30

For every glass of lemonade there were 3 lemons used.

8)

Chocolate Bars (x)	8	5	2	4	6
Calories (y)	2,960	1,850	740	1,480	2,220

Every chocolate bar has 370 calories.

Answers

Ex. y = 10x

1. y = 44x
2. y = 20x
3. y = 18x
4. y = 43x
5. y = 46x
6. y = 26x
7. y = 3x
8. y = 370x