Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Time in minute (x)	5	10	7	2	9
Gallons of Water Used (y)	195	390	273	78	351

Every minute __39__ gallons of water are used.

1)

Chocolate Bars (x)	4	5	9	3	8
Calories (y)	1,320	1,650	2,970	990	2,640

Every chocolate bar has _____ calories.

2)

Pounds of Beef Jerky (x)	8	7	9	4	3
Price in dollars (y)	104	91	117	52	39

For every pound of beef jerky it cost _____ dollars.

3)

Enemies Destroyed (x)	10	9	7	8	3
Points Earned (y)	160	144	112	128	48

Every enemy destroyed earns _____ points.

4)

Votes for Maria (x)	9	4	10	6	7
Votes for George (y)	423	188	470	282	329

For Every vote for Maria there were _____ votes for George.

5)

Pieces of Chicken (x)	3	9	2	7	6
Price in dollars (y)	6	18	4	14	12

For each piece of chicken it costs _____ dollars.

6)

Phone Sold (x)	8	6	5	4	9
Money Earned (y)	248	186	155	124	279

Every phone sold earns _____ dollars.

7)

Lawns Mowed (x)	6	9	10	8	5
Dollars Earned (y)	270	405	450	360	225

For every lawn mowed _____ dollars were earned.

8)

Boxes of Candy (x)	2	9	4	3	7
Pieces of Candy (y)	34	153	68	51	119

For every box of candy you get _____ pieces.

Answers

Ex. y = 39x

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)

Time in minute (x)	5	10	7	2	9
Gallons of Water Used (y)	195	390	273	78	351

Every minute 39 gallons of water are used.

1)

Chocolate Bars (x)	4	5	9	3	8
Calories (y)	1,320	1,650	2,970	990	2,640

Every chocolate bar has 330 calories.

2)

Pounds of Beef Jerky (x)	8	7	9	4	3
Price in dollars (y)	104	91	117	52	39

For every pound of beef jerky it cost 13 dollars.

3)

Enemies Destroyed (x)	10	9	7	8	3
Points Earned (y)	160	144	112	128	48

Every enemy destroyed earns 16 points.

4)

Votes for Maria (x)	9	4	10	6	7
Votes for George (y)	423	188	470	282	329

For Every vote for Maria there were 47 votes for George.

5)

Pieces of Chicken (x)	3	9	2	7	6
Price in dollars (y)	6	18	4	14	12

For each piece of chicken it costs 2 dollars.

6)

Phone Sold (x)	8	6	5	4	9
Money Earned (y)	248	186	155	124	279

Every phone sold earns 31 dollars.

7)

Lawns Mowed (x)	6	9	10	8	5
Dollars Earned (y)	270	405	450	360	225

For every lawn mowed 45 dollars were earned.

8)

Boxes of Candy (x)	2	9	4	3	7
Pieces of Candy (y)	34	153	68	51	119

For every box of candy you get 17 pieces.

Answers

Ex. y = 39x
1. y = 330x
2. y = 13x
3. y = 16x
4. y = 47x
5. y = 2x
6. y = 31x
7. y = 45x
8. y = 17x