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)	9	6	2	7	8
Pieces of Candy (y)	153	102	34	119	136

For every box of candy you get 17 pieces.

1)

Glasses of Lemonade (x)	9	10	7	3	6
Lemons Used (y)	45	50	35	15	30

For every glass of lemonade there were _____ lemons used.

2)

Pounds of Beef Jerky (x)	6	9	4	10	5
Price in dollars (y)	84	126	56	140	70

For every pound of beef jerky it cost _____ dollars.

3)

Chocolate Bars (x)	5	2	7	8	4
Calories (y)	1,580	632	2,212	2,528	1,264

Every chocolate bar has _____ calories.

4)

Time in minute (x)	9	6	10	3	4
Gallons of Water Used (y)	342	228	380	114	152

Every minute _____ gallons of water are used.

5)

Lawns Mowed (x)	8	4	6	3	7
Dollars Earned (y)	288	144	216	108	252

For every lawn mowed _____ dollars were earned.

6)

Votes for Carol (x)	7	8	10	9	6
Votes for Tom (y)	196	224	280	252	168

For Every vote for Carol there were _____ votes for Tom.

7)

Phone Sold (x)	4	10	9	2	3
Money Earned (y)	140	350	315	70	105

Every phone sold earns _____ dollars.

8)

Enemies Destroyed (x)	2	5	3	7	4
Points Earned (y)	30	75	45	105	60

Every enemy destroyed earns _____ points.

Answers

Ex. y = 17x

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)

Boxes of Candy (x)	9	6	2	7	8
Pieces of Candy (y)	153	102	34	119	136

For every box of candy you get 17 pieces.

1)

Glasses of Lemonade (x)	9	10	7	3	6
Lemons Used (y)	45	50	35	15	30

For every glass of lemonade there were 5 lemons used.

2)

Pounds of Beef Jerky (x)	6	9	4	10	5
Price in dollars (y)	84	126	56	140	70

For every pound of beef jerky it cost 14 dollars.

3)

Chocolate Bars (x)	5	2	7	8	4
Calories (y)	1,580	632	2,212	2,528	1,264

Every chocolate bar has 316 calories.

4)

Time in minute (x)	9	6	10	3	4
Gallons of Water Used (y)	342	228	380	114	152

Every minute 38 gallons of water are used.

5)

Lawns Mowed (x)	8	4	6	3	7
Dollars Earned (y)	288	144	216	108	252

For every lawn mowed 36 dollars were earned.

6)

Votes for Carol (x)	7	8	10	9	6
Votes for Tom (y)	196	224	280	252	168

For Every vote for Carol there were 28 votes for Tom.

7)

Phone Sold (x)	4	10	9	2	3
Money Earned (y)	140	350	315	70	105

Every phone sold earns 35 dollars.

8)

Enemies Destroyed (x)	2	5	3	7	4
Points Earned (y)	30	75	45	105	60

Every enemy destroyed earns 15 points.

Answers

Ex. y = 17x

1. y = 5x
2. y = 14x
3. y = 316x
4. y = 38x
5. y = 36x
6. y = 28x
7. y = 35x
8. y = 15x