Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Phone Sold (x)	10	4	6	3	7
Money Earned (y)	430	172	258	129	301

Every phone sold earns __43__ dollars.

1)

Pounds of Beef Jerky (x)	2	6	8	3	5
Price in dollars (y)	30	90	120	45	75

For every pound of beef jerky it cost _____ dollars.

2)

Time in minute (x)	6	10	4	8	2
Gallons of Water Used (y)	162	270	108	216	54

Every minute _____ gallons of water are used.

3)

Votes for Janet (x)	8	10	9	6	7
Votes for Jerry (y)	376	470	423	282	329

For Every vote for Janet there were _____ votes for Jerry.

4)

Enemies Destroyed (x)	9	3	10	6	2
Points Earned (y)	279	93	310	186	62

Every enemy destroyed earns _____ points.

5)

Concrete Blocks (x)	10	8	9	7	4
weight in kilograms (y)	70	56	63	49	28

Every concrete block weighs _____ kilograms.

6)

Chocolate Bars (x)	10	5	3	4	9
Calories (y)	2,200	1,100	660	880	1,980

Every chocolate bar has _____ calories.

7)

Glasses of Lemonade (x)	5	9	8	3	2
Lemons Used (y)	15	27	24	9	6

For every glass of lemonade there were _____ lemons used.

8)

Boxes of Candy (x)	8	9	2	10	4
Pieces of Candy (y)	136	153	34	170	68

For every box of candy you get _____ pieces.

Answers

Ex. y = 43x

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)

Phone Sold (x)	10	4	6	3	7
Money Earned (y)	430	172	258	129	301

Every phone sold earns 43 dollars.

1)

Pounds of Beef Jerky (x)	2	6	8	3	5
Price in dollars (y)	30	90	120	45	75

For every pound of beef jerky it cost 15 dollars.

2)

Time in minute (x)	6	10	4	8	2
Gallons of Water Used (y)	162	270	108	216	54

Every minute 27 gallons of water are used.

3)

Votes for Janet (x)	8	10	9	6	7
Votes for Jerry (y)	376	470	423	282	329

For Every vote for Janet there were 47 votes for Jerry.

4)

Enemies Destroyed (x)	9	3	10	6	2
Points Earned (y)	279	93	310	186	62

Every enemy destroyed earns 31 points.

5)

Concrete Blocks (x)	10	8	9	7	4
weight in kilograms (y)	70	56	63	49	28

Every concrete block weighs 7 kilograms.

6)

Chocolate Bars (x)	10	5	3	4	9
Calories (y)	2,200	1,100	660	880	1,980

Every chocolate bar has 220 calories.

7)

Glasses of Lemonade (x)	5	9	8	3	2
Lemons Used (y)	15	27	24	9	6

For every glass of lemonade there were 3 lemons used.

8)

Boxes of Candy (x)	8	9	2	10	4
Pieces of Candy (y)	136	153	34	170	68

For every box of candy you get 17 pieces.

Answers

Ex. y = 43x

1. y = 15x
2. y = 27x
3. y = 47x
4. y = 31x
5. y = 7x
6. y = 220x
7. y = 3x
8. y = 17x

1-8	88	75	63	50	38	25	13	0