Identifying Constant of Proportionality (Tables)   Name:

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

Ex)

Lawns Mowed (x)	8	6	5	9	7
Dollars Earned (y)	240	180	150	270	210

For every lawn mowed ___30___ dollars were earned.

1)

Pounds of Beef Jerky (x)	7	2	5	3	10
Price in dollars (y)	70	20	50	30	100

For every pound of beef jerky it cost _____ dollars.

2)

Phone Sold (x)	6	10	2	7	4
Money Earned (y)	258	430	86	301	172

Every phone sold earns _____ dollars.

3)

Concrete Blocks (x)	7	9	4	8	2
weight in kilograms (y)	63	81	36	72	18

Every concrete block weighs _____ kilograms.

4)

Cans of Paint (x)	9	5	8	6	4
Bird Houses Painted (y)	45	25	40	30	20

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

5)

Time in minute (x)	4	9	2	8	7
Gallons of Water Used (y)	156	351	78	312	273

Every minute _____ gallons of water are used.

6)

Pieces of Chicken (x)	3	8	5	10	6
Price in dollars (y)	6	16	10	20	12

For each piece of chicken it costs _____ dollars.

7)

Chocolate Bars (x)	5	10	7	8	6
Calories (y)	1,695	3,390	2,373	2,712	2,034

Every chocolate bar has _____ calories.

8)

Tickets Sold (x)	3	10	4	6	2
Money Earned (y)	39	130	52	78	26

Every ticket sold _____ dollars are earned.

Math

Answer Key

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

Ex)

Lawns Mowed (x)	8	6	5	9	7
Dollars Earned (y)	240	180	150	270	210

For every lawn mowed ___30___ dollars were earned.

1)

Pounds of Beef Jerky (x)	7	2	5	3	10
Price in dollars (y)	70	20	50	30	100

For every pound of beef jerky it cost ___10___ dollars.

2)

Phone Sold (x)	6	10	2	7	4
Money Earned (y)	258	430	86	301	172

Every phone sold earns ___43___ dollars.

3)

Concrete Blocks (x)	7	9	4	8	2
weight in kilograms (y)	63	81	36	72	18

Every concrete block weighs ___9___ kilograms.

4)

Cans of Paint (x)	9	5	8	6	4
Bird Houses Painted (y)	45	25	40	30	20

For every can of paint you could paint ___5___ bird houses.

5)

Time in minute (x)	4	9	2	8	7
Gallons of Water Used (y)	156	351	78	312	273

Every minute ___39___ gallons of water are used.

6)

Pieces of Chicken (x)	3	8	5	10	6
Price in dollars (y)	6	16	10	20	12

For each piece of chicken it costs ___2___ dollars.

7)

Chocolate Bars (x)	5	10	7	8	6
Calories (y)	1,695	3,390	2,373	2,712	2,034

Every chocolate bar has ___339___ calories.

8)

Tickets Sold (x)	3	10	4	6	2
Money Earned (y)	39	130	52	78	26

Every ticket sold ___13___ dollars are earned.

Answers

Ex. **y = 30x**

1. **y = 10x**

2. **y = 43x**

3. **y = 9x**

4. **y = 5x**

5. **y = 39x**

6. **y = 2x**

7. **y = 339x**

8. **y = 13x**

Math