Identifying Constant of Proportionality (Tables)

Name: _____

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

Ex)

Enemies Destroyed (x)	9	8	6	3	2
Points Earned (y)	441	392	294	147	98

Every enemy destroyed earns ___49___ points.

1)

Pieces of Chicken (x)	2	9	8	10	3
Price in dollars (y)	2	9	8	10	3

For each piece of chicken it costs _____ dollars.

2)

Chocolate Bars (x)	10	9	8	3	6
Calories (y)	2,240	2,016	1,792	672	1,344

Every chocolate bar has _____ calories.

3)

Concrete Blocks (x)	8	3	2	4	5
weight in kilograms (y)	64	24	16	32	40

Every concrete block weighs _____ kilograms.

4)

Time in minute (x)	8	7	6	4	9
Gallons of Water Used (y)	120	105	90	60	135

Every minute _____ gallons of water are used.

5)

Cans of Paint (x)	9	5	8	2	10
Bird Houses Painted (y)	36	20	32	8	40

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

6)

Tickets Sold (x)	2	5	7	8	9
Money Earned (y)	26	65	91	104	117

Every ticket sold _____ dollars are earned.

7)

Glasses of Lemonade (x)	10	4	5	2	7
Lemons Used (y)	50	20	25	10	35

For every glass of lemonade there were _____ lemons used.

8)

Time in minute (x)	9	10	7	2	5
Distance traveled in meters (y)	171	190	133	38	95

Every minute _____ meters are travelled.

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

Answers

Ex)

Enemies Destroyed (x)	9	8	6	3	2
Points Earned (y)	441	392	294	147	98

Every enemy destroyed earns ___49___ points.

1)

Pieces of Chicken (x)	2	9	8	10	3
Price in dollars (y)	2	9	8	10	3

For each piece of chicken it costs ___1___ dollars.

2)

Chocolate Bars (x)	10	9	8	3	6
Calories (y)	2,240	2,016	1,792	672	1,344

Every chocolate bar has ___224___ calories.

3)

Concrete Blocks (x)	8	3	2	4	5
weight in kilograms (y)	64	24	16	32	40

Every concrete block weighs ___8___ kilograms.

4)

Time in minute (x)	8	7	6	4	9
Gallons of Water Used (y)	120	105	90	60	135

Every minute ___15___ gallons of water are used.

5)

Cans of Paint (x)	9	5	8	2	10
Bird Houses Painted (y)	36	20	32	8	40

For every can of paint you could paint ___4___ bird houses.

6)

Tickets Sold (x)	2	5	7	8	9
Money Earned (y)	26	65	91	104	117

Every ticket sold ___13___ dollars are earned.

7)

Glasses of Lemonade (x)	10	4	5	2	7
Lemons Used (y)	50	20	25	10	35

For every glass of lemonade there were ___5___ lemons used.

8)

Time in minute (x)	9	10	7	2	5
Distance traveled in meters (y)	171	190	133	38	95

Every minute ___19___ meters are travelled.

Answers

Ex. **y = 49x**

1. **y = 1x**

2. **y = 224x**

3. **y = 8x**

4. **y = 15x**

5. **y = 4x**

6. **y = 13x**

7. **y = 5x**

8. **y = 19x**

Math

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1-8 | 88 | 75 | 63 | 50 | 38 | 25 | 13 | 0