Identifying Constant of Proportionality (Tables)

Name: _____

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

Ex)

Cans of Paint (x)	9	7	6	5	2
Bird Houses Painted (y)	45	35	30	25	10

For every can of paint you could paint __5__ bird houses.

Ex. ___**y = 5x**___

1)

Lawns Mowed (x)	5	2	4	8	6
Dollars Earned (y)	165	66	132	264	198

For every lawn mowed _____ dollars were earned.

1. _____

2)

Pieces of Chicken (x)	9	4	3	8	2
Price in dollars (y)	18	8	6	16	4

For each piece of chicken it costs _____ dollars.

2. _____

3. _____

3)

Enemies Destroyed (x)	5	10	8	3	6
Points Earned (y)	145	290	232	87	174

Every enemy destroyed earns _____ points.

4. _____

5. _____

4)

Glasses of Lemonade (x)	2	6	9	3	7
Lemons Used (y)	10	30	45	15	35

For every glass of lemonade there were _____ lemons used.

6. _____

5)

Pounds of Beef Jerky (x)	8	3	9	7	6
Price in dollars (y)	128	48	144	112	96

For every pound of beef jerky it cost _____ dollars.

7. _____

8. _____

6)

Time in minute (x)	6	8	10	5	4
Gallons of Water Used (y)	264	352	440	220	176

Every minute _____ gallons of water are used.

7)

Boxes of Candy (x)	9	10	6	5	8
Pieces of Candy (y)	153	170	102	85	136

For every box of candy you get _____ pieces.

8)

Tickets Sold (x)	2	7	8	6	3
Money Earned (y)	24	84	96	72	36

Every ticket sold _____ dollars are earned.

Math

1-8	88	75	63	50	38	25	13	0

Answer Key

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

Ex)

Cans of Paint (x)	9	7	6	5	2
Bird Houses Painted (y)	45	35	30	25	10

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

Ex. _____**y = 5x**_____

1)

Lawns Mowed (x)	5	2	4	8	6
Dollars Earned (y)	165	66	132	264	198

For every lawn mowed ___33___ dollars were earned.

1. _____**y = 33x**_____

2. _____**y = 2x**_____

2)

Pieces of Chicken (x)	9	4	3	8	2
Price in dollars (y)	18	8	6	16	4

For each piece of chicken it costs ___2___ dollars.

3. _____**y = 29x**_____

4. _____**y = 5x**_____

3)

Enemies Destroyed (x)	5	10	8	3	6
Points Earned (y)	145	290	232	87	174

Every enemy destroyed earns ___29___ points.

5. _____**y = 16x**_____

6. _____**y = 44x**_____

4)

Glasses of Lemonade (x)	2	6	9	3	7
Lemons Used (y)	10	30	45	15	35

For every glass of lemonade there were ___5___ lemons used.

7. _____**y = 17x**_____

8. _____**y = 12x**_____

5)

Pounds of Beef Jerky (x)	8	3	9	7	6
Price in dollars (y)	128	48	144	112	96

For every pound of beef jerky it cost ___16___ dollars.

6)

Time in minute (x)	6	8	10	5	4
Gallons of Water Used (y)	264	352	440	220	176

Every minute ___44___ gallons of water are used.

7)

Boxes of Candy (x)	9	10	6	5	8
Pieces of Candy (y)	153	170	102	85	136

For every box of candy you get ___17___ pieces.

8)

Tickets Sold (x)	2	7	8	6	3
Money Earned (y)	24	84	96	72	36

Every ticket sold ___12___ dollars are earned.

Math

1-8	88	75	63	50	38	25	13	0