Identifying Constant of Proportionality (Tables)   Name:

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

Ex)

Time in minute (x)	4	2	10	3	9
Gallons of Water Used (y)	120	60	300	90	270

Every minute __30__ gallons of water are used.

Ex. ___**y = 30x**___

1)

Enemies Destroyed (x)	5	10	3	4	6
Points Earned (y)	245	490	147	196	294

Every enemy destroyed earns _____ points.

1. _____

2. _____

2)

Pieces of Chicken (x)	8	9	5	2	4
Price in dollars (y)	8	9	5	2	4

For each piece of chicken it costs _____ dollars.

3. _____

4. _____

3)

Lawns Mowed (x)	9	10	7	8	4
Dollars Earned (y)	288	320	224	256	128

For every lawn mowed _____ dollars were earned.

5. _____

4)

Phone Sold (x)	4	3	8	5	9
Money Earned (y)	124	93	248	155	279

Every phone sold earns _____ dollars.

6. _____

7. _____

5)

Chocolate Bars (x)	2	3	7	10	4
Calories (y)	672	1,008	2,352	3,360	1,344

Every chocolate bar has _____ calories.

8. _____

6)

Cans of Paint (x)	3	10	5	2	8
Bird Houses Painted (y)	12	40	20	8	32

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

7)

Pounds of Beef Jerky (x)	7	2	3	5	8
Price in dollars (y)	84	24	36	60	96

For every pound of beef jerky it cost _____ dollars.

8)

Concrete Blocks (x)	5	2	9	6	3
weight in kilograms (y)	35	14	63	42	21

Every concrete block weighs _____ kilograms.

Math

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

Ex)

Time in minute (x)	4	2	10	3	9
Gallons of Water Used (y)	120	60	300	90	270

Every minute ___30___ gallons of water are used.

Ex. $y = 30x$

1)

Enemies Destroyed (x)	5	10	3	4	6
Points Earned (y)	245	490	147	196	294

Every enemy destroyed earns ___49___ points.

1. $y = 49x$

2)

Pieces of Chicken (x)	8	9	5	2	4
Price in dollars (y)	8	9	5	2	4

For each piece of chicken it costs ___1___ dollars.

2. $y = 1x$

3)

Lawns Mowed (x)	9	10	7	8	4
Dollars Earned (y)	288	320	224	256	128

For every lawn mowed ___32___ dollars were earned.

3. $y = 32x$

4)

Phone Sold (x)	4	3	8	5	9
Money Earned (y)	124	93	248	155	279

Every phone sold earns ___31___ dollars.

4. $y = 31x$

5)

Chocolate Bars (x)	2	3	7	10	4
Calories (y)	672	1,008	2,352	3,360	1,344

Every chocolate bar has ___336___ calories.

5. $y = 336x$

6)

Cans of Paint (x)	3	10	5	2	8
Bird Houses Painted (y)	12	40	20	8	32

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

6. $y = 4x$

7)

Pounds of Beef Jerky (x)	7	2	3	5	8
Price in dollars (y)	84	24	36	60	96

For every pound of beef jerky it cost ___12___ dollars.

7. $y = 12x$

8)

Concrete Blocks (x)	5	2	9	6	3
weight in kilograms (y)	35	14	63	42	21

Every concrete block weighs ___7___ kilograms.

8. $y = 7x$

Math