Identifying Constant of Proportionality (Tables)   Name:

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

Answers

Ex)

Glasses of Lemonade (x)	7	10	9	3	4
Lemons Used (y)	28	40	36	12	16

For every glass of lemonade there were ___4___ lemons used.

1)

Time in minute (x)	7	4	2	10	3
Gallons of Water Used (y)	182	104	52	260	78

Every minute _____ gallons of water are used.

2)

Concrete Blocks (x)	8	2	3	4	7
weight in kilograms (y)	40	10	15	20	35

Every concrete block weighs _____ kilograms.

3)

Cans of Paint (x)	4	8	9	7	5
Bird Houses Painted (y)	20	40	45	35	25

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

4)

Lawns Mowed (x)	10	9	7	3	5
Dollars Earned (y)	310	279	217	93	155

For every lawn mowed _____ dollars were earned.

5)

Chocolate Bars (x)	8	4	6	2	3
Calories (y)	2,032	1,016	1,524	508	762

Every chocolate bar has _____ calories.

6)

Time in minute (x)	4	3	9	6	8
Distance traveled in meters (y)	44	33	99	66	88

Every minute _____ meters are travelled.

7)

Enemies Destroyed (x)	3	5	8	6	4
Points Earned (y)	78	130	208	156	104

Every enemy destroyed earns _____ points.

8)

Pounds of Beef Jerky (x)	4	6	5	7	10
Price in dollars (y)	40	60	50	70	100

For every pound of beef jerky it cost _____ dollars.

Ex. ___**y = 4x**___

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

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

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

Ex)

Glasses of Lemonade (x)	7	10	9	3	4
Lemons Used (y)	28	40	36	12	16

For every glass of lemonade there were ___4___ lemons used.

Ex. **y = 4x**

1)

Time in minute (x)	7	4	2	10	3
Gallons of Water Used (y)	182	104	52	260	78

Every minute ___26___ gallons of water are used.

1. **y = 26x**

2. **y = 5x**

2)

Concrete Blocks (x)	8	2	3	4	7
weight in kilograms (y)	40	10	15	20	35

Every concrete block weighs ___5___ kilograms.

3. **y = 5x**

4. **y = 31x**

3)

Cans of Paint (x)	4	8	9	7	5
Bird Houses Painted (y)	20	40	45	35	25

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

5. **y = 254x**

6. **y = 11x**

4)

Lawns Mowed (x)	10	9	7	3	5
Dollars Earned (y)	310	279	217	93	155

For every lawn mowed ___31___ dollars were earned.

7. **y = 26x**

8. **y = 10x**

5)

Chocolate Bars (x)	8	4	6	2	3
Calories (y)	2,032	1,016	1,524	508	762

Every chocolate bar has ___254___ calories.

6)

Time in minute (x)	4	3	9	6	8
Distance traveled in meters (y)	44	33	99	66	88

Every minute ___11___ meters are travelled.

7)

Enemies Destroyed (x)	3	5	8	6	4
Points Earned (y)	78	130	208	156	104

Every enemy destroyed earns ___26___ points.

8)

Pounds of Beef Jerky (x)	4	6	5	7	10
Price in dollars (y)	40	60	50	70	100

For every pound of beef jerky it cost ___10___ dollars.