Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Enemies Destroyed (x)	5	8	4	6	9
Points Earned (y)	135	216	108	162	243

Every enemy destroyed earns 27 points.

1)

Chocolate Bars (x)	2	3	8	9	7
Calories (y)	442	663	1,768	1,989	1,547

Every chocolate bar has _____ calories.

2)

Time in minute (x)	6	2	7	4	5
Gallons of Water Used (y)	234	78	273	156	195

Every minute _____ gallons of water are used.

3)

Lawns Mowed (x)	3	7	4	6	5
Dollars Earned (y)	117	273	156	234	195

For every lawn mowed _____ dollars were earned.

4)

Time in minute (x)	10	5	6	3	7
Distance traveled in meters (y)	300	150	180	90	210

Every minute _____ meters are travelled.

5)

Pounds of Beef Jerky (x)	4	5	10	6	8
Price in dollars (y)	52	65	130	78	104

For every pound of beef jerky it cost _____ dollars.

6)

Glasses of Lemonade (x)	5	9	10	4	8
Lemons Used (y)	15	27	30	12	24

For every glass of lemonade there were _____ lemons used.

7)

Pieces of Chicken (x)	5	3	6	10	2
Price in dollars (y)	10	6	12	20	4

For each piece of chicken it costs _____ dollars.

8)

Cans of Paint (x)	7	4	9	6	3
Bird Houses Painted (y)	21	12	27	18	9

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

Answers

Ex. y = 27x

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

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

Ex)

Enemies Destroyed (x)	5	8	4	6	9
Points Earned (y)	135	216	108	162	243

Every enemy destroyed earns 27 points.

1)

Chocolate Bars (x)	2	3	8	9	7
Calories (y)	442	663	1,768	1,989	1,547

Every chocolate bar has 221 calories.

2)

Time in minute (x)	6	2	7	4	5
Gallons of Water Used (y)	234	78	273	156	195

Every minute 39 gallons of water are used.

3)

Lawns Mowed (x)	3	7	4	6	5
Dollars Earned (y)	117	273	156	234	195

For every lawn mowed 39 dollars were earned.

4)

Time in minute (x)	10	5	6	3	7
Distance traveled in meters (y)	300	150	180	90	210

Every minute 30 meters are travelled.

5)

Pounds of Beef Jerky (x)	4	5	10	6	8
Price in dollars (y)	52	65	130	78	104

For every pound of beef jerky it cost 13 dollars.

6)

Glasses of Lemonade (x)	5	9	10	4	8
Lemons Used (y)	15	27	30	12	24

For every glass of lemonade there were 3 lemons used.

7)

Pieces of Chicken (x)	5	3	6	10	2
Price in dollars (y)	10	6	12	20	4

For each piece of chicken it costs 2 dollars.

8)

Cans of Paint (x)	7	4	9	6	3
Bird Houses Painted (y)	21	12	27	18	9

For every can of paint you could paint 3 bird houses.

Answers

Ex. y = 27x

1. y = 221x
2. y = 39x
3. y = 39x
4. y = 30x
5. y = 13x
6. y = 3x
7. y = 2x
8. y = 3x

1-8	88	75	63	50	38	25	13	0