Identifying Constant of Proportionality (Tables)

Name:

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.

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.

Answers

Ex. y = 4x

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)

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 26 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 5 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 5 bird houses.

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.

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.

Answers

Ex. y = 4x

1. y = 26x
2. y = 5x
3. y = 5x
4. y = 31x
5. y = 254x
6. y = 11x
7. y = 26x
8. y = 10x

1-8	88	75	63	50	38	25	13	0