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)	5	8	2	7	4
Lemons Used (y)	20	32	8	28	16

For every glass of lemonade there were 4 lemons used.

1)

Chocolate Bars (x)	5	3	6	9	8
Calories (y)	1,300	780	1,560	2,340	2,080

Every chocolate bar has _____ calories.

2)

Pounds of Beef Jerky (x)	5	6	10	3	8
Price in dollars (y)	55	66	110	33	88

For every pound of beef jerky it cost _____ dollars.

3)

Time in minute (x)	4	5	2	3	9
Distance traveled in meters (y)	64	80	32	48	144

Every minute _____ meters are travelled.

4)

Boxes of Candy (x)	5	6	9	2	10
Pieces of Candy (y)	80	96	144	32	160

For every box of candy you get _____ pieces.

5)

Concrete Blocks (x)	3	8	7	10	5
weight in kilograms (y)	15	40	35	50	25

Every concrete block weighs _____ kilograms.

6)

Lawns Mowed (x)	8	5	10	4	2
Dollars Earned (y)	248	155	310	124	62

For every lawn mowed _____ dollars were earned.

7)

Phone Sold (x)	8	2	3	6	7
Money Earned (y)	272	68	102	204	238

Every phone sold earns _____ dollars.

8)

Enemies Destroyed (x)	4	9	2	10	6
Points Earned (y)	116	261	58	290	174

Every enemy destroyed earns _____ points.

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)	5	8	2	7	4
Lemons Used (y)	20	32	8	28	16

For every glass of lemonade there were 4 lemons used.

1)

Chocolate Bars (x)	5	3	6	9	8
Calories (y)	1,300	780	1,560	2,340	2,080

Every chocolate bar has 260 calories.

2)

Pounds of Beef Jerky (x)	5	6	10	3	8
Price in dollars (y)	55	66	110	33	88

For every pound of beef jerky it cost 11 dollars.

3)

Time in minute (x)	4	5	2	3	9
Distance traveled in meters (y)	64	80	32	48	144

Every minute 16 meters are travelled.

4)

Boxes of Candy (x)	5	6	9	2	10
Pieces of Candy (y)	80	96	144	32	160

For every box of candy you get 16 pieces.

5)

Concrete Blocks (x)	3	8	7	10	5
weight in kilograms (y)	15	40	35	50	25

Every concrete block weighs 5 kilograms.

6)

Lawns Mowed (x)	8	5	10	4	2
Dollars Earned (y)	248	155	310	124	62

For every lawn mowed 31 dollars were earned.

7)

Phone Sold (x)	8	2	3	6	7
Money Earned (y)	272	68	102	204	238

Every phone sold earns 34 dollars.

8)

Enemies Destroyed (x)	4	9	2	10	6
Points Earned (y)	116	261	58	290	174

Every enemy destroyed earns 29 points.

Answers

Ex. y = 4x
1. y = 260x
2. y = 11x
3. y = 16x
4. y = 16x
5. y = 5x
6. y = 31x
7. y = 34x
8. y = 29x

1-8	88	75	63	50	38	25	13	0