Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Enemies Destroyed (x)	10	7	9	2	4
Points Earned (y)	230	161	207	46	92

Every enemy destroyed earns 23 points.

1)

Phone Sold (x)	6	8	3	2	9
Money Earned (y)	150	200	75	50	225

Every phone sold earns _____ dollars.

2)

Votes for Rachel (x)	8	6	3	2	9
Votes for Oliver (y)	200	150	75	50	225

For Every vote for Rachel there were _____ votes for Oliver.

3)

Time in minute (x)	9	6	10	8	4
Gallons of Water Used (y)	324	216	360	288	144

Every minute _____ gallons of water are used.

4)

Lawns Mowed (x)	6	9	8	3	2
Dollars Earned (y)	252	378	336	126	84

For every lawn mowed _____ dollars were earned.

5)

Pounds of Beef Jerky (x)	3	8	4	2	9
Price in dollars (y)	30	80	40	20	90

For every pound of beef jerky it cost _____ dollars.

6)

Glasses of Lemonade (x)	2	8	3	10	7
Lemons Used (y)	6	24	9	30	21

For every glass of lemonade there were _____ lemons used.

7)

Time in minute (x)	5	7	8	3	6
Distance traveled in meters (y)	120	168	192	72	144

Every minute _____ meters are travelled.

8)

Chocolate Bars (x)	4	6	2	3	8
Calories (y)	1,300	1,950	650	975	2,600

Every chocolate bar has _____ calories.

Answers

Ex. y = 23x

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)	10	7	9	2	4
Points Earned (y)	230	161	207	46	92

Every enemy destroyed earns 23 points.

1)

Phone Sold (x)	6	8	3	2	9
Money Earned (y)	150	200	75	50	225

Every phone sold earns 25 dollars.

2)

Votes for Rachel (x)	8	6	3	2	9
Votes for Oliver (y)	200	150	75	50	225

For Every vote for Rachel there were 25 votes for Oliver.

3)

Time in minute (x)	9	6	10	8	4
Gallons of Water Used (y)	324	216	360	288	144

Every minute 36 gallons of water are used.

4)

Lawns Mowed (x)	6	9	8	3	2
Dollars Earned (y)	252	378	336	126	84

For every lawn mowed 42 dollars were earned.

5)

Pounds of Beef Jerky (x)	3	8	4	2	9
Price in dollars (y)	30	80	40	20	90

For every pound of beef jerky it cost 10 dollars.

6)

Glasses of Lemonade (x)	2	8	3	10	7
Lemons Used (y)	6	24	9	30	21

For every glass of lemonade there were 3 lemons used.

7)

Time in minute (x)	5	7	8	3	6
Distance traveled in meters (y)	120	168	192	72	144

Every minute 24 meters are travelled.

8)

Chocolate Bars (x)	4	6	2	3	8
Calories (y)	1,300	1,950	650	975	2,600

Every chocolate bar has 325 calories.

Answers

Ex. y = 23x

1. y = 25x
2. y = 25x
3. y = 36x
4. y = 42x
5. y = 10x
6. y = 3x
7. y = 24x
8. y = 325x