Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Lawns Mowed (x)	4	8	7	5	2
Dollars Earned (y)	168	336	294	210	84

For every lawn mowed ___42___ dollars were earned.

1)

Enemies Destroyed (x)	9	5	8	7	2
Points Earned (y)	306	170	272	238	68

Every enemy destroyed earns _____ points.

2)

Phone Sold (x)	7	4	5	6	10
Money Earned (y)	350	200	250	300	500

Every phone sold earns _____ dollars.

3)

Boxes of Candy (x)	9	6	10	5	3
Pieces of Candy (y)	153	102	170	85	51

For every box of candy you get _____ pieces.

4)

Time in minute (x)	10	7	5	6	4
Distance traveled in meters (y)	270	189	135	162	108

Every minute _____ meters are travelled.

5)

Votes for Robin (x)	7	5	9	3	4
Votes for Adam (y)	343	245	441	147	196

For Every vote for Robin there were _____ votes for Adam.

6)

Pounds of Beef Jerky (x)	3	8	4	7	5
Price in dollars (y)	36	96	48	84	60

For every pound of beef jerky it cost _____ dollars.

7)

Cans of Paint (x)	5	3	2	4	9
Bird Houses Painted (y)	15	9	6	12	27

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

8)

Time in minute (x)	7	8	5	4	2
Gallons of Water Used (y)	343	392	245	196	98

Every minute _____ gallons of water are used.

Answers

Ex. y = 42x

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)

Lawns Mowed (x)	4	8	7	5	2
Dollars Earned (y)	168	336	294	210	84

For every lawn mowed 42 dollars were earned.

1)

Enemies Destroyed (x)	9	5	8	7	2
Points Earned (y)	306	170	272	238	68

Every enemy destroyed earns 34 points.

2)

Phone Sold (x)	7	4	5	6	10
Money Earned (y)	350	200	250	300	500

Every phone sold earns 50 dollars.

3)

Boxes of Candy (x)	9	6	10	5	3
Pieces of Candy (y)	153	102	170	85	51

For every box of candy you get 17 pieces.

4)

Time in minute (x)	10	7	5	6	4
Distance traveled in meters (y)	270	189	135	162	108

Every minute 27 meters are travelled.

5)

Votes for Robin (x)	7	5	9	3	4
Votes for Adam (y)	343	245	441	147	196

For Every vote for Robin there were 49 votes for Adam.

6)

Pounds of Beef Jerky (x)	3	8	4	7	5
Price in dollars (y)	36	96	48	84	60

For every pound of beef jerky it cost 12 dollars.

7)

Cans of Paint (x)	5	3	2	4	9
Bird Houses Painted (y)	15	9	6	12	27

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

8)

Time in minute (x)	7	8	5	4	2
Gallons of Water Used (y)	343	392	245	196	98

Every minute 49 gallons of water are used.

Answers

Ex. y = 42x
1. y = 34x
2. y = 50x
3. y = 17x
4. y = 27x
5. y = 49x
6. y = 12x
7. y = 3x
8. y = 49x

1-8	88	75	63	50	38	25	13	0