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)	6	7	3	10	4
Lemons Used (y)	24	28	12	40	16

For every glass of lemonade there were 4 lemons used.

1)

Cans of Paint (x)	5	10	8	7	6
Bird Houses Painted (y)	25	50	40	35	30

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

2)

Time in minute (x)	7	6	4	3	5
Gallons of Water Used (y)	133	114	76	57	95

Every minute _____ gallons of water are used.

3)

Pieces of Chicken (x)	3	2	10	9	8
Price in dollars (y)	3	2	10	9	8

For each piece of chicken it costs _____ dollars.

4)

Enemies Destroyed (x)	10	7	9	8	6
Points Earned (y)	150	105	135	120	90

Every enemy destroyed earns _____ points.

5)

Lawns Mowed (x)	9	5	8	10	4
Dollars Earned (y)	342	190	304	380	152

For every lawn mowed _____ dollars were earned.

6)

Votes for Maria (x)	4	6	7	8	3
Votes for Will (y)	144	216	252	288	108

For Every vote for Maria there were _____ votes for Will.

7)

Chocolate Bars (x)	9	4	7	5	8
Calories (y)	2,403	1,068	1,869	1,335	2,136

Every chocolate bar has _____ calories.

8)

Boxes of Candy (x)	3	4	7	2	8
Pieces of Candy (y)	51	68	119	34	136

For every box of candy you get _____ pieces.

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)	6	7	3	10	4
Lemons Used (y)	24	28	12	40	16

For every glass of lemonade there were 4 lemons used.

1)

Cans of Paint (x)	5	10	8	7	6
Bird Houses Painted (y)	25	50	40	35	30

For every can of paint you could paint 5 bird houses.

2)

Time in minute (x)	7	6	4	3	5
Gallons of Water Used (y)	133	114	76	57	95

Every minute 19 gallons of water are used.

3)

Pieces of Chicken (x)	3	2	10	9	8
Price in dollars (y)	3	2	10	9	8

For each piece of chicken it costs 1 dollars.

4)

Enemies Destroyed (x)	10	7	9	8	6
Points Earned (y)	150	105	135	120	90

Every enemy destroyed earns 15 points.

5)

Lawns Mowed (x)	9	5	8	10	4
Dollars Earned (y)	342	190	304	380	152

For every lawn mowed 38 dollars were earned.

6)

Votes for Maria (x)	4	6	7	8	3
Votes for Will (y)	144	216	252	288	108

For Every vote for Maria there were 36 votes for Will.

7)

Chocolate Bars (x)	9	4	7	5	8
Calories (y)	2,403	1,068	1,869	1,335	2,136

Every chocolate bar has 267 calories.

8)

Boxes of Candy (x)	3	4	7	2	8
Pieces of Candy (y)	51	68	119	34	136

For every box of candy you get 17 pieces.

Answers

Ex. y = 4x

1. y = 5x
2. y = 19x
3. y = 1x
4. y = 15x
5. y = 38x
6. y = 36x
7. y = 267x
8. y = 17x

1-8	88	75	63	50	38	25	13	0