Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Enemies Destroyed (x)	6	9	10	2	7
Points Earned (y)	138	207	230	46	161

Every enemy destroyed earns 23 points.

1)

Cans of Paint (x)	9	10	4	6	7
Bird Houses Painted (y)	36	40	16	24	28

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

2)

Lawns Mowed (x)	5	4	6	7	9
Dollars Earned (y)	210	168	252	294	378

For every lawn mowed _____ dollars were earned.

3)

Tickets Sold (x)	6	10	3	5	7
Money Earned (y)	90	150	45	75	105

Every ticket sold _____ dollars are earned.

4)

Chocolate Bars (x)	7	3	10	2	4
Calories (y)	1,967	843	2,810	562	1,124

Every chocolate bar has _____ calories.

5)

Time in minute (x)	7	4	6	10	5
Gallons of Water Used (y)	196	112	168	280	140

Every minute _____ gallons of water are used.

6)

Votes for Carol (x)	5	4	9	8	10
Votes for Dave (y)	210	168	378	336	420

For Every vote for Carol there were _____ votes for Dave.

7)

Boxes of Candy (x)	8	5	6	2	7
Pieces of Candy (y)	144	90	108	36	126

For every box of candy you get _____ pieces.

8)

Concrete Blocks (x)	9	10	7	6	5
weight in kilograms (y)	54	60	42	36	30

Every concrete block weighs _____ kilograms.

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)	6	9	10	2	7
Points Earned (y)	138	207	230	46	161

Every enemy destroyed earns 23 points.

1)

Cans of Paint (x)	9	10	4	6	7
Bird Houses Painted (y)	36	40	16	24	28

For every can of paint you could paint 4 bird houses.

2)

Lawns Mowed (x)	5	4	6	7	9
Dollars Earned (y)	210	168	252	294	378

For every lawn mowed 42 dollars were earned.

3)

Tickets Sold (x)	6	10	3	5	7
Money Earned (y)	90	150	45	75	105

Every ticket sold 15 dollars are earned.

4)

Chocolate Bars (x)	7	3	10	2	4
Calories (y)	1,967	843	2,810	562	1,124

Every chocolate bar has 281 calories.

5)

Time in minute (x)	7	4	6	10	5
Gallons of Water Used (y)	196	112	168	280	140

Every minute 28 gallons of water are used.

6)

Votes for Carol (x)	5	4	9	8	10
Votes for Dave (y)	210	168	378	336	420

For Every vote for Carol there were 42 votes for Dave.

7)

Boxes of Candy (x)	8	5	6	2	7
Pieces of Candy (y)	144	90	108	36	126

For every box of candy you get 18 pieces.

8)

Concrete Blocks (x)	9	10	7	6	5
weight in kilograms (y)	54	60	42	36	30

Every concrete block weighs 6 kilograms.

Answers

Ex. y = 23x

1. y = 4x
2. y = 42x
3. y = 15x
4. y = 281x
5. y = 28x
6. y = 42x
7. y = 18x
8. y = 6x

1-8	88	75	63	50	38	25	13	0