Identifying Constant of Proportionality (Tables) Name:

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

Ex)

Concrete Blocks (x)	6	5	7	9	3
weight in kilograms (y)	54	45	63	81	27

Every concrete block weighs __9__ kilograms.

1)

Time in minute (x)	7	8	6	4	2
Gallons of Water Used (y)	315	360	270	180	90

Every minute _____ gallons of water are used.

2)

Chocolate Bars (x)	6	7	3	4	10
Calories (y)	1,530	1,785	765	1,020	2,550

Every chocolate bar has _____ calories.

3)

Pounds of Beef Jerky (x)	6	7	9	2	5
Price in dollars (y)	84	98	126	28	70

For every pound of beef jerky it cost _____ dollars.

4)

Pieces of Chicken (x)	3	6	9	5	10
Price in dollars (y)	6	12	18	10	20

For each piece of chicken it costs _____ dollars.

5)

Boxes of Candy (x)	10	3	4	5	2
Pieces of Candy (y)	160	48	64	80	32

For every box of candy you get _____ pieces.

6)

Votes for Emily (x)	8	10	7	2	9
Votes for Edward (y)	312	390	273	78	351

For Every vote for Emily there were _____ votes for Edward.

7)

Lawns Mowed (x)	4	10	9	6	5
Dollars Earned (y)	144	360	324	216	180

For every lawn mowed _____ dollars were earned.

8)

Cans of Paint (x)	7	8	9	2	10
Bird Houses Painted (y)	28	32	36	8	40

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

Answers

Ex. y = 9x

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)

Concrete Blocks (x)	6	5	7	9	3
weight in kilograms (y)	54	45	63	81	27

Every concrete block weighs 9 kilograms.

1)

Time in minute (x)	7	8	6	4	2
Gallons of Water Used (y)	315	360	270	180	90

Every minute 45 gallons of water are used.

2)

Chocolate Bars (x)	6	7	3	4	10
Calories (y)	1,530	1,785	765	1,020	2,550

Every chocolate bar has 255 calories.

3)

Pounds of Beef Jerky (x)	6	7	9	2	5
Price in dollars (y)	84	98	126	28	70

For every pound of beef jerky it cost 14 dollars.

4)

Pieces of Chicken (x)	3	6	9	5	10
Price in dollars (y)	6	12	18	10	20

For each piece of chicken it costs 2 dollars.

5)

Boxes of Candy (x)	10	3	4	5	2
Pieces of Candy (y)	160	48	64	80	32

For every box of candy you get 16 pieces.

6)

Votes for Emily (x)	8	10	7	2	9
Votes for Edward (y)	312	390	273	78	351

For Every vote for Emily there were 39 votes for Edward.

7)

Lawns Mowed (x)	4	10	9	6	5
Dollars Earned (y)	144	360	324	216	180

For every lawn mowed 36 dollars were earned.

8)

Cans of Paint (x)	7	8	9	2	10
Bird Houses Painted (y)	28	32	36	8	40

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

Answers

Ex. y = 9x

1. y = 45x
2. y = 255x
3. y = 14x
4. y = 2x
5. y = 16x
6. y = 39x
7. y = 36x
8. y = 4x

1-8	88	75	63	50	38	25	13	0