Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Votes for Robin (x)	9	3	10	6	4
Votes for Edward (y)	432	144	480	288	192

For Every vote for Robin there were ___48___ votes for Edward.

1)

Chocolate Bars (x)	3	9	10	5	6
Calories (y)	825	2,475	2,750	1,375	1,650

Every chocolate bar has _____ calories.

2)

Lawns Mowed (x)	5	6	9	10	3
Dollars Earned (y)	180	216	324	360	108

For every lawn mowed _____ dollars were earned.

3)

Pieces of Chicken (x)	4	8	10	2	6
Price in dollars (y)	4	8	10	2	6

For each piece of chicken it costs _____ dollars.

4)

Tickets Sold (x)	6	7	4	2	9
Money Earned (y)	66	77	44	22	99

Every ticket sold _____ dollars are earned.

5)

Concrete Blocks (x)	6	4	3	5	2
weight in kilograms (y)	60	40	30	50	20

Every concrete block weighs _____ kilograms.

6)

Glasses of Lemonade (x)	10	7	8	3	6
Lemons Used (y)	40	28	32	12	24

For every glass of lemonade there were _____ lemons used.

7)

Enemies Destroyed (x)	3	10	9	6	2
Points Earned (y)	144	480	432	288	96

Every enemy destroyed earns _____ points.

8)

Cans of Paint (x)	2	5	7	6	3
Bird Houses Painted (y)	8	20	28	24	12

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

Answers

Ex. **y = 48x**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Identifying Constant of Proportionality (Tables) Name: **Answer Key**

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

Ex)

Votes for Robin (x)	9	3	10	6	4
Votes for Edward (y)	432	144	480	288	192

For Every vote for Robin there were 48 votes for Edward.

1)

Chocolate Bars (x)	3	9	10	5	6
Calories (y)	825	2,475	2,750	1,375	1,650

Every chocolate bar has 275 calories.

2)

Lawns Mowed (x)	5	6	9	10	3
Dollars Earned (y)	180	216	324	360	108

For every lawn mowed 36 dollars were earned.

3)

Pieces of Chicken (x)	4	8	10	2	6
Price in dollars (y)	4	8	10	2	6

For each piece of chicken it costs 1 dollars.

4)

Tickets Sold (x)	6	7	4	2	9
Money Earned (y)	66	77	44	22	99

Every ticket sold 11 dollars are earned.

5)

Concrete Blocks (x)	6	4	3	5	2
weight in kilograms (y)	60	40	30	50	20

Every concrete block weighs 10 kilograms.

6)

Glasses of Lemonade (x)	10	7	8	3	6
Lemons Used (y)	40	28	32	12	24

For every glass of lemonade there were 4 lemons used.

7)

Enemies Destroyed (x)	3	10	9	6	2
Points Earned (y)	144	480	432	288	96

Every enemy destroyed earns 48 points.

8)

Cans of Paint (x)	2	5	7	6	3
Bird Houses Painted (y)	8	20	28	24	12

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

Answers

Ex. y = 48x

1. y = 275x

2. y = 36x

3. y = 1x

4. y = 11x

5. y = 10x

6. y = 4x

7. y = 48x

8. y = 4x

1-8	88	75	63	50	38	25	13	0