Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Time in minute (x)	9	2	10	7	4
Gallons of Water Used (y)	414	92	460	322	184

Every minute __46__ gallons of water are used.

1)

Pieces of Chicken (x)	8	2	4	6	9
Price in dollars (y)	8	2	4	6	9

For each piece of chicken it costs _____ dollars.

2)

Glasses of Lemonade (x)	6	10	9	7	3
Lemons Used (y)	18	30	27	21	9

For every glass of lemonade there were _____ lemons used.

3)

Phone Sold (x)	3	9	4	8	6
Money Earned (y)	57	171	76	152	114

Every phone sold earns _____ dollars.

4)

Votes for Faye (x)	4	9	3	6	10
Votes for Roger (y)	104	234	78	156	260

For Every vote for Faye there were _____ votes for Roger.

5)

Boxes of Candy (x)	5	4	8	6	10
Pieces of Candy (y)	75	60	120	90	150

For every box of candy you get _____ pieces.

6)

Enemies Destroyed (x)	4	5	9	2	10
Points Earned (y)	160	200	360	80	400

Every enemy destroyed earns _____ points.

7)

Concrete Blocks (x)	7	2	3	10	8
weight in kilograms (y)	42	12	18	60	48

Every concrete block weighs _____ kilograms.

8)

Tickets Sold (x)	5	6	3	4	7
Money Earned (y)	55	66	33	44	77

Every ticket sold _____ dollars are earned.

Answers

Ex. y = 46x

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)

Time in minute (x)	9	2	10	7	4
Gallons of Water Used (y)	414	92	460	322	184

Every minute 46 gallons of water are used.

1)

Pieces of Chicken (x)	8	2	4	6	9
Price in dollars (y)	8	2	4	6	9

For each piece of chicken it costs 1 dollars.

2)

Glasses of Lemonade (x)	6	10	9	7	3
Lemons Used (y)	18	30	27	21	9

For every glass of lemonade there were 3 lemons used.

3)

Phone Sold (x)	3	9	4	8	6
Money Earned (y)	57	171	76	152	114

Every phone sold earns 19 dollars.

4)

Votes for Faye (x)	4	9	3	6	10
Votes for Roger (y)	104	234	78	156	260

For Every vote for Faye there were 26 votes for Roger.

5)

Boxes of Candy (x)	5	4	8	6	10
Pieces of Candy (y)	75	60	120	90	150

For every box of candy you get 15 pieces.

6)

Enemies Destroyed (x)	4	5	9	2	10
Points Earned (y)	160	200	360	80	400

Every enemy destroyed earns 40 points.

7)

Concrete Blocks (x)	7	2	3	10	8
weight in kilograms (y)	42	12	18	60	48

Every concrete block weighs 6 kilograms.

8)

Tickets Sold (x)	5	6	3	4	7
Money Earned (y)	55	66	33	44	77

Every ticket sold 11 dollars are earned.

Answers

Ex. y = 46x

1. y = 1x
2. y = 3x
3. y = 19x
4. y = 26x
5. y = 15x
6. y = 40x
7. y = 6x
8. y = 11x

1-8	88	75	63	50	38	25	13	0