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)	3	5	4	10	7
Lemons Used (y)	12	20	16	40	28

For every glass of lemonade there were 4 lemons used.

1)

Phone Sold (x)	5	6	2	8	4
Money Earned (y)	225	270	90	360	180

Every phone sold earns _____ dollars.

2)

Cans of Paint (x)	3	4	2	7	5
Bird Houses Painted (y)	9	12	6	21	15

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

3)

Enemies Destroyed (x)	2	8	6	3	7
Points Earned (y)	46	184	138	69	161

Every enemy destroyed earns _____ points.

4)

Boxes of Candy (x)	10	9	6	3	7
Pieces of Candy (y)	170	153	102	51	119

For every box of candy you get _____ pieces.

5)

Pieces of Chicken (x)	7	3	8	6	4
Price in dollars (y)	14	6	16	12	8

For each piece of chicken it costs _____ dollars.

6)

Tickets Sold (x)	4	2	9	10	5
Money Earned (y)	60	30	135	150	75

Every ticket sold _____ dollars are earned.

7)

Lawns Mowed (x)	10	6	5	9	7
Dollars Earned (y)	450	270	225	405	315

For every lawn mowed _____ dollars were earned.

8)

Time in minute (x)	9	2	4	10	8
Gallons of Water Used (y)	414	92	184	460	368

Every minute _____ gallons of water are used.

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)	3	5	4	10	7
Lemons Used (y)	12	20	16	40	28

For every glass of lemonade there were 4 lemons used.

1)

Phone Sold (x)	5	6	2	8	4
Money Earned (y)	225	270	90	360	180

Every phone sold earns 45 dollars.

2)

Cans of Paint (x)	3	4	2	7	5
Bird Houses Painted (y)	9	12	6	21	15

For every can of paint you could paint 3 bird houses.

3)

Enemies Destroyed (x)	2	8	6	3	7
Points Earned (y)	46	184	138	69	161

Every enemy destroyed earns 23 points.

4)

Boxes of Candy (x)	10	9	6	3	7
Pieces of Candy (y)	170	153	102	51	119

For every box of candy you get 17 pieces.

5)

Pieces of Chicken (x)	7	3	8	6	4
Price in dollars (y)	14	6	16	12	8

For each piece of chicken it costs 2 dollars.

6)

Tickets Sold (x)	4	2	9	10	5
Money Earned (y)	60	30	135	150	75

Every ticket sold 15 dollars are earned.

7)

Lawns Mowed (x)	10	6	5	9	7
Dollars Earned (y)	450	270	225	405	315

For every lawn mowed 45 dollars were earned.

8)

Time in minute (x)	9	2	4	10	8
Gallons of Water Used (y)	414	92	184	460	368

Every minute 46 gallons of water are used.

Answers

Ex. y = 4x

1. y = 45x
2. y = 3x
3. y = 23x
4. y = 17x
5. y = 2x
6. y = 15x
7. y = 45x
8. y = 46x