Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Phone Sold (x)	5	7	8	2	4
Money Earned (y)	80	112	128	32	64

Every phone sold earns 16 dollars.

1)

Tickets Sold (x)	9	3	10	6	8
Money Earned (y)	135	45	150	90	120

Every ticket sold _____ dollars are earned.

2)

Time in minute (x)	10	9	4	6	8
Gallons of Water Used (y)	350	315	140	210	280

Every minute _____ gallons of water are used.

3)

Cans of Paint (x)	5	3	7	10	6
Bird Houses Painted (y)	20	12	28	40	24

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

4)

Pounds of Beef Jerky (x)	8	2	5	6	4
Price in dollars (y)	80	20	50	60	40

For every pound of beef jerky it cost _____ dollars.

5)

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

For each piece of chicken it costs _____ dollars.

6)

Glasses of Lemonade (x)	7	9	4	6	10
Lemons Used (y)	28	36	16	24	40

For every glass of lemonade there were _____ lemons used.

7)

Time in minute (x)	10	7	6	4	5
Distance traveled in meters (y)	230	161	138	92	115

Every minute _____ meters are travelled.

8)

Enemies Destroyed (x)	8	3	10	6	9
Points Earned (y)	240	90	300	180	270

Every enemy destroyed earns _____ points.

Answers

Ex. y = 16x

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)

Phone Sold (x)	5	7	8	2	4
Money Earned (y)	80	112	128	32	64

Every phone sold earns 16 dollars.

1)

Tickets Sold (x)	9	3	10	6	8
Money Earned (y)	135	45	150	90	120

Every ticket sold 15 dollars are earned.

2)

Time in minute (x)	10	9	4	6	8
Gallons of Water Used (y)	350	315	140	210	280

Every minute 35 gallons of water are used.

3)

Cans of Paint (x)	5	3	7	10	6
Bird Houses Painted (y)	20	12	28	40	24

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

4)

Pounds of Beef Jerky (x)	8	2	5	6	4
Price in dollars (y)	80	20	50	60	40

For every pound of beef jerky it cost 10 dollars.

5)

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

For each piece of chicken it costs 2 dollars.

6)

Glasses of Lemonade (x)	7	9	4	6	10
Lemons Used (y)	28	36	16	24	40

For every glass of lemonade there were 4 lemons used.

7)

Time in minute (x)	10	7	6	4	5
Distance traveled in meters (y)	230	161	138	92	115

Every minute 23 meters are travelled.

8)

Enemies Destroyed (x)	8	3	10	6	9
Points Earned (y)	240	90	300	180	270

Every enemy destroyed earns 30 points.

Answers

Ex. y = 16x

1. y = 15x
2. y = 35x
3. y = 4x
4. y = 10x
5. y = 2x
6. y = 4x
7. y = 23x
8. y = 30x

1-8	88	75	63	50	38	25	13	0