Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Boxes of Candy (x)	5	3	2	9	7
Pieces of Candy (y)	80	48	32	144	112

For every box of candy you get 16 pieces.

1)

Glasses of Lemonade (x)	8	9	5	6	4
Lemons Used (y)	40	45	25	30	20

For every glass of lemonade there were _____ lemons used.

2)

Phone Sold (x)	3	2	5	10	9
Money Earned (y)	120	80	200	400	360

Every phone sold earns _____ dollars.

3)

Enemies Destroyed (x)	8	10	3	2	5
Points Earned (y)	400	500	150	100	250

Every enemy destroyed earns _____ points.

4)

Pieces of Chicken (x)	2	3	10	4	8
Price in dollars (y)	2	3	10	4	8

For each piece of chicken it costs _____ dollars.

5)

Pounds of Beef Jerky (x)	8	5	3	2	4
Price in dollars (y)	96	60	36	24	48

For every pound of beef jerky it cost _____ dollars.

6)

Tickets Sold (x)	10	8	3	7	4
Money Earned (y)	150	120	45	105	60

Every ticket sold _____ dollars are earned.

7)

Time in minute (x)	5	8	7	2	10
Gallons of Water Used (y)	120	192	168	48	240

Every minute _____ gallons of water are used.

8)

Lawns Mowed (x)	5	2	10	9	8
Dollars Earned (y)	190	76	380	342	304

For every lawn mowed _____ dollars were earned.

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)

Boxes of Candy (x)	5	3	2	9	7
Pieces of Candy (y)	80	48	32	144	112

For every box of candy you get 16 pieces.

1)

Glasses of Lemonade (x)	8	9	5	6	4
Lemons Used (y)	40	45	25	30	20

For every glass of lemonade there were 5 lemons used.

2)

Phone Sold (x)	3	2	5	10	9
Money Earned (y)	120	80	200	400	360

Every phone sold earns 40 dollars.

3)

Enemies Destroyed (x)	8	10	3	2	5
Points Earned (y)	400	500	150	100	250

Every enemy destroyed earns 50 points.

4)

Pieces of Chicken (x)	2	3	10	4	8
Price in dollars (y)	2	3	10	4	8

For each piece of chicken it costs 1 dollars.

5)

Pounds of Beef Jerky (x)	8	5	3	2	4
Price in dollars (y)	96	60	36	24	48

For every pound of beef jerky it cost 12 dollars.

6)

Tickets Sold (x)	10	8	3	7	4
Money Earned (y)	150	120	45	105	60

Every ticket sold 15 dollars are earned.

7)

Time in minute (x)	5	8	7	2	10
Gallons of Water Used (y)	120	192	168	48	240

Every minute 24 gallons of water are used.

8)

Lawns Mowed (x)	5	2	10	9	8
Dollars Earned (y)	190	76	380	342	304

For every lawn mowed 38 dollars were earned.

Answers

Ex. y = 16x

1. y = 5x
2. y = 40x
3. y = 50x
4. y = 1x
5. y = 12x
6. y = 15x
7. y = 24x
8. y = 38x

1-8	88	75	63	50	38	25	13	0