Identifying Constant of Proportionality (Tables)

Name:

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

Ex)

Tickets Sold (x)	9	7	10	8	6
Money Earned (y)	99	77	110	88	66

Every ticket sold 11 dollars are earned.

1)

Phone Sold (x)	10	6	3	8	7
Money Earned (y)	440	264	132	352	308

Every phone sold earns _____ dollars.

2)

Enemies Destroyed (x)	7	8	3	9	5
Points Earned (y)	266	304	114	342	190

Every enemy destroyed earns _____ points.

3)

Lawns Mowed (x)	9	4	7	3	5
Dollars Earned (y)	315	140	245	105	175

For every lawn mowed _____ dollars were earned.

4)

Pounds of Beef Jerky (x)	7	4	10	3	8
Price in dollars (y)	77	44	110	33	88

For every pound of beef jerky it cost _____ dollars.

5)

Time in minute (x)	6	5	4	10	3
Distance traveled in meters (y)	120	100	80	200	60

Every minute _____ meters are travelled.

6)

Chocolate Bars (x)	10	7	8	2	6
Calories (y)	3,970	2,779	3,176	794	2,382

Every chocolate bar has _____ calories.

7)

Glasses of Lemonade (x)	10	2	4	8	6
Lemons Used (y)	40	8	16	32	24

For every glass of lemonade there were _____ lemons used.

8)

Time in minute (x)	6	2	10	9	3
Gallons of Water Used (y)	126	42	210	189	63

Every minute _____ gallons of water are used.

Answers

Ex. y = 11x

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)

Tickets Sold (x)	9	7	10	8	6
Money Earned (y)	99	77	110	88	66

Every ticket sold 11 dollars are earned.

1)

Phone Sold (x)	10	6	3	8	7
Money Earned (y)	440	264	132	352	308

Every phone sold earns 44 dollars.

2)

Enemies Destroyed (x)	7	8	3	9	5
Points Earned (y)	266	304	114	342	190

Every enemy destroyed earns 38 points.

3)

Lawns Mowed (x)	9	4	7	3	5
Dollars Earned (y)	315	140	245	105	175

For every lawn mowed 35 dollars were earned.

4)

Pounds of Beef Jerky (x)	7	4	10	3	8
Price in dollars (y)	77	44	110	33	88

For every pound of beef jerky it cost 11 dollars.

5)

Time in minute (x)	6	5	4	10	3
Distance traveled in meters (y)	120	100	80	200	60

Every minute 20 meters are travelled.

6)

Chocolate Bars (x)	10	7	8	2	6
Calories (y)	3,970	2,779	3,176	794	2,382

Every chocolate bar has 397 calories.

7)

Glasses of Lemonade (x)	10	2	4	8	6
Lemons Used (y)	40	8	16	32	24

For every glass of lemonade there were 4 lemons used.

8)

Time in minute (x)	6	2	10	9	3
Gallons of Water Used (y)	126	42	210	189	63

Every minute 21 gallons of water are used.

Answers

Ex. y = 11x

1. y = 44x
2. y = 38x
3. y = 35x
4. y = 11x
5. y = 20x
6. y = 397x
7. y = 4x
8. y = 21x

1-8	88	75	63	50	38	25	13	0