Identifying Constant of Proportionality (Tables) Name:

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

Ex)

Votes for Lana (x)	8	2	9	7	10
Votes for Will (y)	240	60	270	210	300

For Every vote for Lana there were 30 votes for Will.

1)

Pounds of Beef Jerky (x)	9	10	2	7	8
Price in dollars (y)	90	100	20	70	80

For every pound of beef jerky it cost _____ dollars.

2)

Enemies Destroyed (x)	2	5	4	9	10
Points Earned (y)	100	250	200	450	500

Every enemy destroyed earns _____ points.

3)

Glasses of Lemonade (x)	9	7	3	8	2
Lemons Used (y)	36	28	12	32	8

For every glass of lemonade there were _____ lemons used.

4)

Cans of Paint (x)	5	8	10	6	7
Bird Houses Painted (y)	25	40	50	30	35

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

5)

Lawns Mowed (x)	2	4	10	6	9
Dollars Earned (y)	68	136	340	204	306

For every lawn mowed _____ dollars were earned.

6)

Pieces of Chicken (x)	6	9	7	2	10
Price in dollars (y)	12	18	14	4	20

For each piece of chicken it costs _____ dollars.

7)

Phone Sold (x)	6	2	3	9	10
Money Earned (y)	228	76	114	342	380

Every phone sold earns _____ dollars.

8)

Chocolate Bars (x)	9	5	3	4	2
Calories (y)	2,196	1,220	732	976	488

Every chocolate bar has _____ calories.

Answers

Ex. y = 30x

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)

Votes for Lana (x)	8	2	9	7	10
Votes for Will (y)	240	60	270	210	300

For Every vote for Lana there were 30 votes for Will.

1)

Pounds of Beef Jerky (x)	9	10	2	7	8
Price in dollars (y)	90	100	20	70	80

For every pound of beef jerky it cost 10 dollars.

2)

Enemies Destroyed (x)	2	5	4	9	10
Points Earned (y)	100	250	200	450	500

Every enemy destroyed earns 50 points.

3)

Glasses of Lemonade (x)	9	7	3	8	2
Lemons Used (y)	36	28	12	32	8

For every glass of lemonade there were 4 lemons used.

4)

Cans of Paint (x)	5	8	10	6	7
Bird Houses Painted (y)	25	40	50	30	35

For every can of paint you could paint 5 bird houses.

5)

Lawns Mowed (x)	2	4	10	6	9
Dollars Earned (y)	68	136	340	204	306

For every lawn mowed 34 dollars were earned.

6)

Pieces of Chicken (x)	6	9	7	2	10
Price in dollars (y)	12	18	14	4	20

For each piece of chicken it costs 2 dollars.

7)

Phone Sold (x)	6	2	3	9	10
Money Earned (y)	228	76	114	342	380

Every phone sold earns 38 dollars.

8)

Chocolate Bars (x)	9	5	3	4	2
Calories (y)	2,196	1,220	732	976	488

Every chocolate bar has 244 calories.

Answers

Ex. y = 30x

1. y = 10x
2. y = 50x
3. y = 4x
4. y = 5x
5. y = 34x
6. y = 2x
7. y = 38x
8. y = 244x