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)	9	5	3	4	2
Lemons Used (y)	45	25	15	20	10

For every glass of lemonade there were 5 lemons used.

1)

Concrete Blocks (x)	8	5	7	2	3
weight in kilograms (y)	72	45	63	18	27

Every concrete block weighs _____ kilograms.

2)

Enemies Destroyed (x)	6	4	10	2	3
Points Earned (y)	264	176	440	88	132

Every enemy destroyed earns _____ points.

3)

Pieces of Chicken (x)	7	5	8	6	10
Price in dollars (y)	7	5	8	6	10

For each piece of chicken it costs _____ dollars.

4)

Phone Sold (x)	6	4	5	9	10
Money Earned (y)	108	72	90	162	180

Every phone sold earns _____ dollars.

5)

Pounds of Beef Jerky (x)	9	8	5	2	10
Price in dollars (y)	126	112	70	28	140

For every pound of beef jerky it cost _____ dollars.

6)

Votes for Haley (x)	8	10	3	9	2
Votes for Kaleb (y)	184	230	69	207	46

For Every vote for Haley there were _____ votes for Kaleb.

7)

Tickets Sold (x)	8	5	7	2	9
Money Earned (y)	96	60	84	24	108

Every ticket sold _____ dollars are earned.

8)

Boxes of Candy (x)	7	2	8	4	5
Pieces of Candy (y)	140	40	160	80	100

For every box of candy you get _____ pieces.

Answers

Ex. y = 5x

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)	9	5	3	4	2
Lemons Used (y)	45	25	15	20	10

For every glass of lemonade there were 5 lemons used.

1)

Concrete Blocks (x)	8	5	7	2	3
weight in kilograms (y)	72	45	63	18	27

Every concrete block weighs 9 kilograms.

2)

Enemies Destroyed (x)	6	4	10	2	3
Points Earned (y)	264	176	440	88	132

Every enemy destroyed earns 44 points.

3)

Pieces of Chicken (x)	7	5	8	6	10
Price in dollars (y)	7	5	8	6	10

For each piece of chicken it costs 1 dollars.

4)

Phone Sold (x)	6	4	5	9	10
Money Earned (y)	108	72	90	162	180

Every phone sold earns 18 dollars.

5)

Pounds of Beef Jerky (x)	9	8	5	2	10
Price in dollars (y)	126	112	70	28	140

For every pound of beef jerky it cost 14 dollars.

6)

Votes for Haley (x)	8	10	3	9	2
Votes for Kaleb (y)	184	230	69	207	46

For Every vote for Haley there were 23 votes for Kaleb.

7)

Tickets Sold (x)	8	5	7	2	9
Money Earned (y)	96	60	84	24	108

Every ticket sold 12 dollars are earned.

8)

Boxes of Candy (x)	7	2	8	4	5
Pieces of Candy (y)	140	40	160	80	100

For every box of candy you get 20 pieces.

Answers

Ex. y = 5x

1. y = 9x
2. y = 44x
3. y = 1x
4. y = 18x
5. y = 14x
6. y = 23x
7. y = 12x
8. y = 20x

1-8	88	75	63	50	38	25	13	0