



## Identifying Constant of Proportionality (Tables)

Name: \_\_\_\_\_

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

Ex)

<b>Tickets Sold (x)</b>	4	2	10	9	7
<b>Money Earned (y)</b>	56	28	140	126	98

Every ticket sold 14 dollars are earned.

1)

<b>Time in minute (x)</b>	6	5	8	3	9
<b>Distance traveled in meters (y)</b>	78	65	104	39	117

Every minute \_\_\_\_\_ meters are travelled.

2)

<b>Lawns Mowed (x)</b>	2	6	10	8	9
<b>Dollars Earned (y)</b>	90	270	450	360	405

For every lawn mowed \_\_\_\_\_ dollars were earned.

3)

<b>Cans of Paint (x)</b>	8	5	3	7	4
<b>Bird Houses Painted (y)</b>	32	20	12	28	16

For every can of paint you could paint \_\_\_\_\_ bird houses.

4)

<b>Votes for Faye (x)</b>	5	6	7	8	10
<b>Votes for George (y)</b>	195	234	273	312	390

For Every vote for Faye there were \_\_\_\_\_ votes for George.

5)

<b>Time in minute (x)</b>	9	10	2	6	7
<b>Gallons of Water Used (y)</b>	423	470	94	282	329

Every minute \_\_\_\_\_ gallons of water are used.

6)

<b>Pounds of Beef Jerky (x)</b>	9	10	3	5	6
<b>Price in dollars (y)</b>	108	120	36	60	72

For every pound of beef jerky it cost \_\_\_\_\_ dollars.

7)

<b>Pieces of Chicken (x)</b>	9	8	5	3	2
<b>Price in dollars (y)</b>	9	8	5	3	2

For each piece of chicken it costs \_\_\_\_\_ dollars.

8)

<b>Glasses of Lemonade (x)</b>	10	4	7	3	2
<b>Lemons Used (y)</b>	30	12	21	9	6

For every glass of lemonade there were \_\_\_\_\_ lemons used.

**Answers**

Ex.  $y = 14x$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_



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

Ex)

<b>Tickets Sold (x)</b>	4	2	10	9	7
<b>Money Earned (y)</b>	56	28	140	126	98

Every ticket sold 14 dollars are earned.

1)

<b>Time in minute (x)</b>	6	5	8	3	9
<b>Distance traveled in meters (y)</b>	78	65	104	39	117

Every minute 13 meters are travelled.

2)

<b>Lawns Mowed (x)</b>	2	6	10	8	9
<b>Dollars Earned (y)</b>	90	270	450	360	405

For every lawn mowed 45 dollars were earned.

3)

<b>Cans of Paint (x)</b>	8	5	3	7	4
<b>Bird Houses Painted (y)</b>	32	20	12	28	16

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

4)

<b>Votes for Faye (x)</b>	5	6	7	8	10
<b>Votes for George (y)</b>	195	234	273	312	390

For Every vote for Faye there were 39 votes for George.

5)

<b>Time in minute (x)</b>	9	10	2	6	7
<b>Gallons of Water Used (y)</b>	423	470	94	282	329

Every minute 47 gallons of water are used.

6)

<b>Pounds of Beef Jerky (x)</b>	9	10	3	5	6
<b>Price in dollars (y)</b>	108	120	36	60	72

For every pound of beef jerky it cost 12 dollars.

7)

<b>Pieces of Chicken (x)</b>	9	8	5	3	2
<b>Price in dollars (y)</b>	9	8	5	3	2

For each piece of chicken it costs 1 dollars.

8)

<b>Glasses of Lemonade (x)</b>	10	4	7	3	2
<b>Lemons Used (y)</b>	30	12	21	9	6

For every glass of lemonade there were 3 lemons used.

**Answers**

Ex.  $y = 14x$

1.  $y = 13x$

2.  $y = 45x$

3.  $y = 4x$

4.  $y = 39x$

5.  $y = 47x$

6.  $y = 12x$

7.  $y = 1x$

8.  $y = 3x$