

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

Ex)

<b>Glasses of Lemonade (x)</b>	9	5	3	4	2
<b>Lemons Used (y)</b>	45	25	15	20	10

Ex.  $y = 5x$ For every glass of lemonade there were 5 lemons used.

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

1)

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

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

Every concrete block weighs \_\_\_\_\_ kilograms.

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

2)

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

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

Every enemy destroyed earns \_\_\_\_\_ points.

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

3)

<b>Pieces of Chicken (x)</b>	7	5	8	6	10
<b>Price in dollars (y)</b>	7	5	8	6	10

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

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

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

4)

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

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

Every phone sold earns \_\_\_\_\_ dollars.

5)

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

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

6)

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

For Every vote for Haley there were \_\_\_\_\_ votes for Kaleb.

7)

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

Every ticket sold \_\_\_\_\_ dollars are earned.

8)

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

For every box of candy you get \_\_\_\_\_ pieces.

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

Ex)

<b>Glasses of Lemonade (x)</b>	9	5	3	4	2
<b>Lemons Used (y)</b>	45	25	15	20	10

Ex.  $y = 5x$

For every glass of lemonade there were 5 lemons used.

1.  $y = 9x$

1)

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

2.  $y = 44x$

Every concrete block weighs 9 kilograms.

3.  $y = 1x$

2)

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

4.  $y = 18x$

Every enemy destroyed earns 44 points.

5.  $y = 14x$

3)

<b>Pieces of Chicken (x)</b>	7	5	8	6	10
<b>Price in dollars (y)</b>	7	5	8	6	10

6.  $y = 23x$

For each piece of chicken it costs 1 dollars.

7.  $y = 12x$

4)

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

8.  $y = 20x$

Every phone sold earns 18 dollars.

5)

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

For every pound of beef jerky it cost 14 dollars.

6)

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

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

7)

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

Every ticket sold 12 dollars are earned.

8)

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

For every box of candy you get 20 pieces.