



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

**Answers**

Ex) 

<b>Glasses of Lemonade (x)</b>	7	10	9	3	4
<b>Lemons Used (y)</b>	28	40	36	12	16

Ex.  $y = 4x$

For every glass of lemonade there were 4 lemons used.

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

1) 

<b>Time in minute (x)</b>	7	4	2	10	3
<b>Gallons of Water Used (y)</b>	182	104	52	260	78

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

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

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

2) 

<b>Concrete Blocks (x)</b>	8	2	3	4	7
<b>weight in kilograms (y)</b>	40	10	15	20	35

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

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

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

3) 

<b>Cans of Paint (x)</b>	4	8	9	7	5
<b>Bird Houses Painted (y)</b>	20	40	45	35	25

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

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

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

4) 

<b>Lawns Mowed (x)</b>	10	9	7	3	5
<b>Dollars Earned (y)</b>	310	279	217	93	155

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

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

5) 

<b>Chocolate Bars (x)</b>	8	4	6	2	3
<b>Calories (y)</b>	2,032	1,016	1,524	508	762

Every chocolate bar has \_\_\_\_\_ calories.

6) 

<b>Time in minute (x)</b>	4	3	9	6	8
<b>Distance traveled in meters (y)</b>	44	33	99	66	88

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

7) 

<b>Enemies Destroyed (x)</b>	3	5	8	6	4
<b>Points Earned (y)</b>	78	130	208	156	104

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

8) 

<b>Pounds of Beef Jerky (x)</b>	4	6	5	7	10
<b>Price in dollars (y)</b>	40	60	50	70	100

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



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For every glass of lemonade there were 4 lemons used.

Answers

Ex.  $y = 4x$

1)

<b>Time in minute (x)</b>	7	4	2	10	3
<b>Gallons of Water Used (y)</b>	182	104	52	260	78

Every minute 26 gallons of water are used.

1.  $y = 26x$

2)

<b>Concrete Blocks (x)</b>	8	2	3	4	7
<b>weight in kilograms (y)</b>	40	10	15	20	35

Every concrete block weighs 5 kilograms.

2.  $y = 5x$

3.  $y = 5x$

3)

<b>Cans of Paint (x)</b>	4	8	9	7	5
<b>Bird Houses Painted (y)</b>	20	40	45	35	25

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

4.  $y = 31x$

5.  $y = 254x$

6.  $y = 11x$

4)

<b>Lawns Mowed (x)</b>	10	9	7	3	5
<b>Dollars Earned (y)</b>	310	279	217	93	155

For every lawn mowed 31 dollars were earned.

7.  $y = 26x$

8.  $y = 10x$

5)

<b>Chocolate Bars (x)</b>	8	4	6	2	3
<b>Calories (y)</b>	2,032	1,016	1,524	508	762

Every chocolate bar has 254 calories.

6)

<b>Time in minute (x)</b>	4	3	9	6	8
<b>Distance traveled in meters (y)</b>	44	33	99	66	88

Every minute 11 meters are travelled.

7)

<b>Enemies Destroyed (x)</b>	3	5	8	6	4
<b>Points Earned (y)</b>	78	130	208	156	104

Every enemy destroyed earns 26 points.

8)

<b>Pounds of Beef Jerky (x)</b>	4	6	5	7	10
<b>Price in dollars (y)</b>	40	60	50	70	100

For every pound of beef jerky it cost 10 dollars.