

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

Ex)

<b>Concrete Blocks (x)</b>	6	5	7	9	3
<b>weight in kilograms (y)</b>	54	45	63	81	27

Every concrete block weighs 9 kilograms.

Ex.  $y = 9x$

1)

<b>Time in minute (x)</b>	7	8	6	4	2
<b>Gallons of Water Used (y)</b>	315	360	270	180	90

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

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

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

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

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

2)

<b>Chocolate Bars (x)</b>	6	7	3	4	10
<b>Calories (y)</b>	1,530	1,785	765	1,020	2,550

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

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

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

3)

<b>Pounds of Beef Jerky (x)</b>	6	7	9	2	5
<b>Price in dollars (y)</b>	84	98	126	28	70

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

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

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

4)

<b>Pieces of Chicken (x)</b>	3	6	9	5	10
<b>Price in dollars (y)</b>	6	12	18	10	20

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

5)

<b>Boxes of Candy (x)</b>	10	3	4	5	2
<b>Pieces of Candy (y)</b>	160	48	64	80	32

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

6)

<b>Votes for Emily (x)</b>	8	10	7	2	9
<b>Votes for Edward (y)</b>	312	390	273	78	351

For Every vote for Emily there were \_\_\_\_\_ votes for Edward.

7)

<b>Lawns Mowed (x)</b>	4	10	9	6	5
<b>Dollars Earned (y)</b>	144	360	324	216	180

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

8)

<b>Cans of Paint (x)</b>	7	8	9	2	10
<b>Bird Houses Painted (y)</b>	28	32	36	8	40

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

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Ex)

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<b>weight in kilograms (y)</b>	54	45	63	81	27

Every concrete block weighs 9 kilograms.

Ex.  $y = 9x$

1)

<b>Time in minute (x)</b>	7	8	6	4	2
<b>Gallons of Water Used (y)</b>	315	360	270	180	90

Every minute 45 gallons of water are used.

1.  $y = 45x$

2)

<b>Chocolate Bars (x)</b>	6	7	3	4	10
<b>Calories (y)</b>	1,530	1,785	765	1,020	2,550

Every chocolate bar has 255 calories.

2.  $y = 255x$

3)

<b>Pounds of Beef Jerky (x)</b>	6	7	9	2	5
<b>Price in dollars (y)</b>	84	98	126	28	70

For every pound of beef jerky it cost 14 dollars.

3.  $y = 14x$

4)

<b>Pieces of Chicken (x)</b>	3	6	9	5	10
<b>Price in dollars (y)</b>	6	12	18	10	20

For each piece of chicken it costs 2 dollars.

4.  $y = 2x$

5)

<b>Boxes of Candy (x)</b>	10	3	4	5	2
<b>Pieces of Candy (y)</b>	160	48	64	80	32

For every box of candy you get 16 pieces.

5.  $y = 16x$

6)

<b>Votes for Emily (x)</b>	8	10	7	2	9
<b>Votes for Edward (y)</b>	312	390	273	78	351

For Every vote for Emily there were 39 votes for Edward.

6.  $y = 39x$

7)

<b>Lawns Mowed (x)</b>	4	10	9	6	5
<b>Dollars Earned (y)</b>	144	360	324	216	180

For every lawn mowed 36 dollars were earned.

7.  $y = 36x$

8)

<b>Cans of Paint (x)</b>	7	8	9	2	10
<b>Bird Houses Painted (y)</b>	28	32	36	8	40

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

8.  $y = 4x$