

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

Ex)

| | | | | | |
|--------------------------------|----|----|----|----|----|
| Concrete Blocks (x) | 6 | 5 | 7 | 9 | 3 |
| weight in kilograms (y) | 54 | 45 | 63 | 81 | 27 |

Every concrete block weighs 9 kilograms.

Ex. $y = 9x$

1)

| | | | | | |
|----------------------------------|-----|-----|-----|-----|----|
| Time in minute (x) | 7 | 8 | 6 | 4 | 2 |
| Gallons of Water Used (y) | 315 | 360 | 270 | 180 | 90 |

Every minute _____ gallons of water are used.

1. _____

2. _____

3. _____

4. _____

2)

| | | | | | |
|---------------------------|-------|-------|-----|-------|-------|
| Chocolate Bars (x) | 6 | 7 | 3 | 4 | 10 |
| Calories (y) | 1,530 | 1,785 | 765 | 1,020 | 2,550 |

Every chocolate bar has _____ calories.

5. _____

6. _____

3)

| | | | | | |
|---------------------------------|----|----|-----|----|----|
| Pounds of Beef Jerky (x) | 6 | 7 | 9 | 2 | 5 |
| Price in dollars (y) | 84 | 98 | 126 | 28 | 70 |

For every pound of beef jerky it cost _____ dollars.

7. _____

8. _____

4)

| | | | | | |
|------------------------------|---|----|----|----|----|
| Pieces of Chicken (x) | 3 | 6 | 9 | 5 | 10 |
| Price in dollars (y) | 6 | 12 | 18 | 10 | 20 |

For each piece of chicken it costs _____ dollars.

5)

| | | | | | |
|----------------------------|-----|----|----|----|----|
| Boxes of Candy (x) | 10 | 3 | 4 | 5 | 2 |
| Pieces of Candy (y) | 160 | 48 | 64 | 80 | 32 |

For every box of candy you get _____ pieces.

6)

| | | | | | |
|-----------------------------|-----|-----|-----|----|-----|
| Votes for Emily (x) | 8 | 10 | 7 | 2 | 9 |
| Votes for Edward (y) | 312 | 390 | 273 | 78 | 351 |

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

7)

| | | | | | |
|---------------------------|-----|-----|-----|-----|-----|
| Lawns Mowed (x) | 4 | 10 | 9 | 6 | 5 |
| Dollars Earned (y) | 144 | 360 | 324 | 216 | 180 |

For every lawn mowed _____ dollars were earned.

8)

| | | | | | |
|--------------------------------|----|----|----|---|----|
| Cans of Paint (x) | 7 | 8 | 9 | 2 | 10 |
| Bird Houses Painted (y) | 28 | 32 | 36 | 8 | 40 |

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

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

Ex)

| | | | | | |
|--------------------------------|----|----|----|----|----|
| Concrete Blocks (x) | 6 | 5 | 7 | 9 | 3 |
| weight in kilograms (y) | 54 | 45 | 63 | 81 | 27 |

Every concrete block weighs 9 kilograms.

Ex. $y = 9x$

1)

| | | | | | |
|----------------------------------|-----|-----|-----|-----|----|
| Time in minute (x) | 7 | 8 | 6 | 4 | 2 |
| Gallons of Water Used (y) | 315 | 360 | 270 | 180 | 90 |

Every minute 45 gallons of water are used.

1. $y = 45x$

2)

| | | | | | |
|---------------------------|-------|-------|-----|-------|-------|
| Chocolate Bars (x) | 6 | 7 | 3 | 4 | 10 |
| Calories (y) | 1,530 | 1,785 | 765 | 1,020 | 2,550 |

Every chocolate bar has 255 calories.

2. $y = 255x$

3)

| | | | | | |
|---------------------------------|----|----|-----|----|----|
| Pounds of Beef Jerky (x) | 6 | 7 | 9 | 2 | 5 |
| Price in dollars (y) | 84 | 98 | 126 | 28 | 70 |

For every pound of beef jerky it cost 14 dollars.

3. $y = 14x$

4)

| | | | | | |
|------------------------------|---|----|----|----|----|
| Pieces of Chicken (x) | 3 | 6 | 9 | 5 | 10 |
| Price in dollars (y) | 6 | 12 | 18 | 10 | 20 |

For each piece of chicken it costs 2 dollars.

4. $y = 2x$

5)

| | | | | | |
|----------------------------|-----|----|----|----|----|
| Boxes of Candy (x) | 10 | 3 | 4 | 5 | 2 |
| Pieces of Candy (y) | 160 | 48 | 64 | 80 | 32 |

For every box of candy you get 16 pieces.

5. $y = 16x$

6)

| | | | | | |
|-----------------------------|-----|-----|-----|----|-----|
| Votes for Emily (x) | 8 | 10 | 7 | 2 | 9 |
| Votes for Edward (y) | 312 | 390 | 273 | 78 | 351 |

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

6. $y = 39x$

7)

| | | | | | |
|---------------------------|-----|-----|-----|-----|-----|
| Lawns Mowed (x) | 4 | 10 | 9 | 6 | 5 |
| Dollars Earned (y) | 144 | 360 | 324 | 216 | 180 |

For every lawn mowed 36 dollars were earned.

7. $y = 36x$

8)

| | | | | | |
|--------------------------------|----|----|----|---|----|
| Cans of Paint (x) | 7 | 8 | 9 | 2 | 10 |
| Bird Houses Painted (y) | 28 | 32 | 36 | 8 | 40 |

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

8. $y = 4x$