

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

Ex)

| | | | | | |
|--------------------------------|----|----|----|----|----|
| Glasses of Lemonade (x) | 9 | 5 | 3 | 4 | 2 |
| Lemons Used (y) | 45 | 25 | 15 | 20 | 10 |

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

1. _____

1)

| | | | | | |
|--------------------------------|----|----|----|----|----|
| Concrete Blocks (x) | 8 | 5 | 7 | 2 | 3 |
| weight in kilograms (y) | 72 | 45 | 63 | 18 | 27 |

2. _____

Every concrete block weighs _____ kilograms.

3. _____

2)

| | | | | | |
|------------------------------|-----|-----|-----|----|-----|
| Enemies Destroyed (x) | 6 | 4 | 10 | 2 | 3 |
| Points Earned (y) | 264 | 176 | 440 | 88 | 132 |

4. _____

Every enemy destroyed earns _____ points.

5. _____

3)

| | | | | | |
|------------------------------|---|---|---|---|----|
| Pieces of Chicken (x) | 7 | 5 | 8 | 6 | 10 |
| Price in dollars (y) | 7 | 5 | 8 | 6 | 10 |

6. _____

For each piece of chicken it costs _____ dollars.

7. _____

4)

| | | | | | |
|-------------------------|-----|----|----|-----|-----|
| Phone Sold (x) | 6 | 4 | 5 | 9 | 10 |
| Money Earned (y) | 108 | 72 | 90 | 162 | 180 |

8. _____

Every phone sold earns _____ dollars.

5)

| | | | | | |
|---------------------------------|-----|-----|----|----|-----|
| Pounds of Beef Jerky (x) | 9 | 8 | 5 | 2 | 10 |
| Price in dollars (y) | 126 | 112 | 70 | 28 | 140 |

For every pound of beef jerky it cost _____ dollars.

6)

| | | | | | |
|----------------------------|-----|-----|----|-----|----|
| Votes for Haley (x) | 8 | 10 | 3 | 9 | 2 |
| Votes for Kaleb (y) | 184 | 230 | 69 | 207 | 46 |

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

7)

| | | | | | |
|-------------------------|----|----|----|----|-----|
| Tickets Sold (x) | 8 | 5 | 7 | 2 | 9 |
| Money Earned (y) | 96 | 60 | 84 | 24 | 108 |

Every ticket sold _____ dollars are earned.

8)

| | | | | | |
|----------------------------|-----|----|-----|----|-----|
| Boxes of Candy (x) | 7 | 2 | 8 | 4 | 5 |
| Pieces of Candy (y) | 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)

| | | | | | |
|--------------------------------|----|----|----|----|----|
| Glasses of Lemonade (x) | 9 | 5 | 3 | 4 | 2 |
| Lemons Used (y) | 45 | 25 | 15 | 20 | 10 |

Ex. $y = 5x$

For every glass of lemonade there were 5 lemons used.

1. $y = 9x$

1)

| | | | | | |
|--------------------------------|----|----|----|----|----|
| Concrete Blocks (x) | 8 | 5 | 7 | 2 | 3 |
| weight in kilograms (y) | 72 | 45 | 63 | 18 | 27 |

2. $y = 44x$

Every concrete block weighs 9 kilograms.

3. $y = 1x$

2)

| | | | | | |
|------------------------------|-----|-----|-----|----|-----|
| Enemies Destroyed (x) | 6 | 4 | 10 | 2 | 3 |
| Points Earned (y) | 264 | 176 | 440 | 88 | 132 |

4. $y = 18x$

Every enemy destroyed earns 44 points.

5. $y = 14x$

3)

| | | | | | |
|------------------------------|---|---|---|---|----|
| Pieces of Chicken (x) | 7 | 5 | 8 | 6 | 10 |
| Price in dollars (y) | 7 | 5 | 8 | 6 | 10 |

6. $y = 23x$

For each piece of chicken it costs 1 dollars.

7. $y = 12x$

4)

| | | | | | |
|-------------------------|-----|----|----|-----|-----|
| Phone Sold (x) | 6 | 4 | 5 | 9 | 10 |
| Money Earned (y) | 108 | 72 | 90 | 162 | 180 |

8. $y = 20x$

Every phone sold earns 18 dollars.

5)

| | | | | | |
|---------------------------------|-----|-----|----|----|-----|
| Pounds of Beef Jerky (x) | 9 | 8 | 5 | 2 | 10 |
| Price in dollars (y) | 126 | 112 | 70 | 28 | 140 |

For every pound of beef jerky it cost 14 dollars.

6)

| | | | | | |
|----------------------------|-----|-----|----|-----|----|
| Votes for Haley (x) | 8 | 10 | 3 | 9 | 2 |
| Votes for Kaleb (y) | 184 | 230 | 69 | 207 | 46 |

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

7)

| | | | | | |
|-------------------------|----|----|----|----|-----|
| Tickets Sold (x) | 8 | 5 | 7 | 2 | 9 |
| Money Earned (y) | 96 | 60 | 84 | 24 | 108 |

Every ticket sold 12 dollars are earned.

8)

| | | | | | |
|----------------------------|-----|----|-----|----|-----|
| Boxes of Candy (x) | 7 | 2 | 8 | 4 | 5 |
| Pieces of Candy (y) | 140 | 40 | 160 | 80 | 100 |

For every box of candy you get 20 pieces.