

Identifying Constant of Proportionality (Tables) Name:

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

| | | _ | | | | |
|-----|---------------------|----|----|----|-----|-----|
| Ex) | Boxes of Candy (x) | 5 | 3 | 2 | 9 | 7 |
| | Pieces of Candy (y) | 80 | 48 | 32 | 144 | 112 |

For every box of candy you get 16 pieces.

| 1) | Glasses of Lemonade (x) | 8 | 9 | 5 | 6 | 4 |
|----|-------------------------|----|----|----|----|----|
| | Lemons Used (y) | 40 | 45 | 25 | 30 | 20 |

For every glass of lemonade there were _____ lemons used.

| 2) | Phone Sold (x) | 3 | 2 | 5 | 10 | 9 |
|----|------------------|-----|----|-----|-----|-----|
| | Money Earned (y) | 120 | 80 | 200 | 400 | 360 |

Every phone sold earns dollars.

| 3) | Enemies Destroyed (x) | 8 | 10 | 3 | 2 | 5 |
|----|------------------------------|-----|-----|-----|-----|-----|
| | Points Earned (y) | 400 | 500 | 150 | 100 | 250 |

Every enemy destroyed earns points.

| 4) | Pieces of Chicken (x) | 2 | 3 | 10 | 4 | 8 |
|----|-----------------------|---|---|----|---|---|
| | Price in dollars (y) | 2 | 3 | 10 | 4 | 8 |

For each piece of chicken it costs dollars.

| 5) | Pounds of Beef Jerky (x) | 8 | 5 | 3 | 2 | 4 |
|----|--------------------------|----|----|----|----|----|
| | Price in dollars (y) | 96 | 60 | 36 | 24 | 48 |

For every pound of beef jerky it cost dollars.

| 6) | Tickets Sold (x) | 10 | 8 | 3 | 7 | 4 |
|------------|------------------|-----|-----|----|-----|----|
| | Money Earned (y) | 150 | 120 | 45 | 105 | 60 |

Every ticket sold dollars are earned.

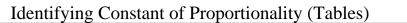
| 7) | Time in minute (x) | 5 | 8 | 7 | 2 | 10 |
|------------|---------------------------|-----|-----|-----|----|-----|
| | Gallons of Water Used (y) | 120 | 192 | 168 | 48 | 240 |

Every minute _____ gallons of water are used.

| 8) | Lawns Mowed (x) | 5 | 2 | 10 | 9 | 8 |
|----|--------------------|-----|----|-----|-----|-----|
| | Dollars Earned (y) | 190 | 76 | 380 | 342 | 304 |

For every lawn mowed dollars were earned.

Answers



Name:

Answer Key

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

| E-7 |
|-----|
| E-7 |

| Boxes of Candy (x) | 5 | 3 | 2 | 9 | 7 |
|---------------------|----|----|----|-----|-----|
| Pieces of Candy (y) | 80 | 48 | 32 | 144 | 112 |

For every box of candy you get 16 pieces.

| 1) | Glasses of Lemonade (x) | 8 | 9 | 5 | 6 | 4 |
|----|-------------------------|----|----|----|----|----|
| | Lemons Used (y) | 40 | 45 | 25 | 30 | 20 |

For every glass of lemonade there were ___5 __ lemons used.

| 2) | Phone Sold (x) | 3 | 2 | 5 | 10 | 9 |
|----|------------------|-----|----|-----|-----|-----|
| | Money Earned (y) | 120 | 80 | 200 | 400 | 360 |

Every phone sold earns 40 dollars.

| 3) | Enemies Destroyed (x) | 8 | 10 | 3 | 2 | 5 |
|----|------------------------------|-----|-----|-----|-----|-----|
| | Points Earned (y) | 400 | 500 | 150 | 100 | 250 |

Every enemy destroyed earns 50 points

| 4) | Pieces of Chicken (x) | 2 | 3 | 10 | 4 | 8 |
|----|-----------------------|---|---|----|---|---|
| | Price in dollars (y) | 2 | 3 | 10 | 4 | 8 |

For each piece of chicken it costs ____1__ dollars.

| 5) | Pounds of Beef Jerky (x) | 8 | 5 | 3 | 2 | 4 |
|----|--------------------------|----|----|----|----|----|
| | Price in dollars (y) | 96 | 60 | 36 | 24 | 48 |

For every pound of beef jerky it cost 12 dollars.

| 6) | Tickets Sold (x) | 10 | 8 | 3 | 7 | 4 |
|------------|------------------|-----|-----|----|-----|----|
| | Money Earned (y) | 150 | 120 | 45 | 105 | 60 |

Every ticket sold ____15__ dollars are earned.

| 7) | Time in minute (x) | 5 | 8 | 7 | 2 | 10 |
|----|---------------------------|-----|-----|-----|----|-----|
| | Gallons of Water Used (y) | 120 | 192 | 168 | 48 | 240 |

Every minute 24 gallons of water are used.

| 8) | Lawns Mowed (x) | 5 | 2 | 10 | 9 | 8 |
|----|--------------------|-----|----|-----|-----|-----|
| | Dollars Earned (y) | 190 | 76 | 380 | 342 | 304 |

For every lawn mowed ____38___ dollars were earned.

Answers

Ex.
$$y = 16x$$

$$1. \quad \mathbf{y} = \mathbf{5}\mathbf{x}$$

$$y = 40x$$

$$y = 50x$$

$$4. \quad \mathbf{y} = \mathbf{1}\mathbf{x}$$

$$y = 12x$$

$$y = 15x$$

$$y = 24x$$

$$y = 38x$$