# Identifying Constant of Proportionality (Tables)

Name:

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

**Ex)**

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

For every glass of lemonade there were __5__ lemons used.

**1)**

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

Every concrete block weighs _____ kilograms.

**2)**

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

Every enemy destroyed earns _____ points.

**3)**

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

For each piece of chicken it costs _____ dollars.

**4)**

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

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.

## Answers

Ex. y = 5x

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____



| 1-8 | 88 | 75 | 63 | 50 | 38 | 25 | 13 | 0 |
|---|---|---|---|---|---|---|---|---|

Identifying Constant of Proportionality (Tables) Name: **Answer Key**

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

**Ex)**

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

For every glass of lemonade there were 5 lemons used.

**1)**

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

Every concrete block weighs 9 kilograms.

**2)**

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

Every enemy destroyed earns 44 points.

**3)**

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

For each piece of chicken it costs 1 dollars.

**4)**

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

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.

**Answers**

Ex. y = 5x

1. y = 9x
2. y = 44x
3. y = 1x
4. y = 18x
5. y = 14x
6. y = 23x
7. y = 12x
8. y = 20x



| 1-8 | 88 | 75 | 63 | 50 | 38 | 25 | 13 | 0 |
|---|---|---|---|---|---|---|---|---|