# Identifying Constant of Proportionality (Tables) Name:

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

**Ex)**

| Time in minute (x) | 2 | 6 | 5 | 9 | 7 |
|---|---|---|---|---|---|
| Distance traveled in meters (y) | 30 | 90 | 75 | 135 | 105 |

Every minute 15 meters are travelled.

**1)**

| Votes for Lana (x) | 3 | 6 | 5 | 4 | 8 |
|---|---|---|---|---|---|
| Votes for Billy (y) | 114 | 228 | 190 | 152 | 304 |

For Every vote for Lana there were _____ votes for Billy.

**2)**

| Enemies Destroyed (x) | 2 | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|
| Points Earned (y) | 68 | 136 | 170 | 204 | 272 |

Every enemy destroyed earns _____ points.

**3)**

| Pieces of Chicken (x) | 5 | 8 | 4 | 6 | 9 |
|---|---|---|---|---|---|
| Price in dollars (y) | 10 | 16 | 8 | 12 | 18 |

For each piece of chicken it costs _____ dollars.

**4)**

| Pounds of Beef Jerky (x) | 5 | 3 | 7 | 4 | 9 |
|---|---|---|---|---|---|
| Price in dollars (y) | 70 | 42 | 98 | 56 | 126 |

For every pound of beef jerky it cost _____ dollars.

**5)**

| Glasses of Lemonade (x) | 2 | 9 | 4 | 3 | 7 |
|---|---|---|---|---|---|
| Lemons Used (y) | 8 | 36 | 16 | 12 | 28 |

For every glass of lemonade there were _____ lemons used.

**6)**

| Chocolate Bars (x) | 4 | 10 | 9 | 6 | 2 |
|---|---|---|---|---|---|
| Calories (y) | 976 | 2,440 | 2,196 | 1,464 | 488 |

Every chocolate bar has _____ calories.

**7)**

| Boxes of Candy (x) | 9 | 7 | 6 | 10 | 3 |
|---|---|---|---|---|---|
| Pieces of Candy (y) | 144 | 112 | 96 | 160 | 48 |

For every box of candy you get _____ pieces.

**8)**

| Phone Sold (x) | 2 | 5 | 10 | 9 | 7 |
|---|---|---|---|---|---|
| Money Earned (y) | 62 | 155 | 310 | 279 | 217 |

Every phone sold earns _____ dollars.

## Answers

Ex. y = 15x

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)**

| Time in minute (x) | 2 | 6 | 5 | 9 | 7 |
|---|---|---|---|---|---|
| Distance traveled in meters (y) | 30 | 90 | 75 | 135 | 105 |

Every minute 15 meters are travelled.

**1)**

| Votes for Lana (x) | 3 | 6 | 5 | 4 | 8 |
|---|---|---|---|---|---|
| Votes for Billy (y) | 114 | 228 | 190 | 152 | 304 |

For Every vote for Lana there were 38 votes for Billy.

**2)**

| Enemies Destroyed (x) | 2 | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|
| Points Earned (y) | 68 | 136 | 170 | 204 | 272 |

Every enemy destroyed earns 34 points.

**3)**

| Pieces of Chicken (x) | 5 | 8 | 4 | 6 | 9 |
|---|---|---|---|---|---|
| Price in dollars (y) | 10 | 16 | 8 | 12 | 18 |

For each piece of chicken it costs 2 dollars.

**4)**

| Pounds of Beef Jerky (x) | 5 | 3 | 7 | 4 | 9 |
|---|---|---|---|---|---|
| Price in dollars (y) | 70 | 42 | 98 | 56 | 126 |

For every pound of beef jerky it cost 14 dollars.

**5)**

| Glasses of Lemonade (x) | 2 | 9 | 4 | 3 | 7 |
|---|---|---|---|---|---|
| Lemons Used (y) | 8 | 36 | 16 | 12 | 28 |

For every glass of lemonade there were 4 lemons used.

**6)**

| Chocolate Bars (x) | 4 | 10 | 9 | 6 | 2 |
|---|---|---|---|---|---|
| Calories (y) | 976 | 2,440 | 2,196 | 1,464 | 488 |

Every chocolate bar has 244 calories.

**7)**

| Boxes of Candy (x) | 9 | 7 | 6 | 10 | 3 |
|---|---|---|---|---|---|
| Pieces of Candy (y) | 144 | 112 | 96 | 160 | 48 |

For every box of candy you get 16 pieces.

**8)**

| Phone Sold (x) | 2 | 5 | 10 | 9 | 7 |
|---|---|---|---|---|---|
| Money Earned (y) | 62 | 155 | 310 | 279 | 217 |

Every phone sold earns 31 dollars.

## Answers

Ex. y = 15x

1. y = 38x
2. y = 34x
3. y = 2x
4. y = 14x
5. y = 4x
6. y = 244x
7. y = 16x
8. y = 31x



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