# Identifying Constant of Proportionality (Tables)

Name:

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

**Ex)**

| Phone Sold (x) | 3 | 2 | 7 | 10 | 9 |
|---|---|---|---|---|---|
| Money Earned (y) | 81 | 54 | 189 | 270 | 243 |

Every phone sold earns 27 dollars.

**1)**

| Time in minute (x) | 7 | 6 | 9 | 2 | 4 |
|---|---|---|---|---|---|
| Gallons of Water Used (y) | 154 | 132 | 198 | 44 | 88 |

Every minute __ gallons of water are used.

**2)**

| Boxes of Candy (x) | 6 | 2 | 4 | 8 | 10 |
|---|---|---|---|---|---|
| Pieces of Candy (y) | 90 | 30 | 60 | 120 | 150 |

For every box of candy you get __ pieces.

**3)**

| Cans of Paint (x) | 7 | 3 | 4 | 9 | 10 |
|---|---|---|---|---|---|
| Bird Houses Painted (y) | 21 | 9 | 12 | 27 | 30 |

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

**4)**

| Pounds of Beef Jerky (x) | 4 | 10 | 7 | 6 | 9 |
|---|---|---|---|---|---|
| Price in dollars (y) | 52 | 130 | 91 | 78 | 117 |

For every pound of beef jerky it cost __ dollars.

**5)**

| Pieces of Chicken (x) | 2 | 7 | 10 | 3 | 6 |
|---|---|---|---|---|---|
| Price in dollars (y) | 2 | 7 | 10 | 3 | 6 |

For each piece of chicken it costs _ dollars.

**6)**

| Chocolate Bars (x) | 8 | 6 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Calories (y) | 2,856 | 2,142 | 714 | 1,071 | 1,428 |

Every chocolate bar has ___ calories.

**7)**

| Enemies Destroyed (x) | 8 | 7 | 4 | 9 | 3 |
|---|---|---|---|---|---|
| Points Earned (y) | 152 | 133 | 76 | 171 | 57 |

Every enemy destroyed earns __ points.

**8)**

| Concrete Blocks (x) | 8 | 7 | 4 | 5 | 9 |
|---|---|---|---|---|---|
| weight in kilograms (y) | 80 | 70 | 40 | 50 | 90 |

Every concrete block weighs __ kilograms.

## Answers

Ex. y = 27x

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)**

| Phone Sold (x) | 3 | 2 | 7 | 10 | 9 |
|---|---|---|---|---|---|
| Money Earned (y) | 81 | 54 | 189 | 270 | 243 |

Every phone sold earns 27 dollars.

**1)**

| Time in minute (x) | 7 | 6 | 9 | 2 | 4 |
|---|---|---|---|---|---|
| Gallons of Water Used (y) | 154 | 132 | 198 | 44 | 88 |

Every minute 22 gallons of water are used.

**2)**

| Boxes of Candy (x) | 6 | 2 | 4 | 8 | 10 |
|---|---|---|---|---|---|
| Pieces of Candy (y) | 90 | 30 | 60 | 120 | 150 |

For every box of candy you get 15 pieces.

**3)**

| Cans of Paint (x) | 7 | 3 | 4 | 9 | 10 |
|---|---|---|---|---|---|
| Bird Houses Painted (y) | 21 | 9 | 12 | 27 | 30 |

For every can of paint you could paint 3 bird houses.

**4)**

| Pounds of Beef Jerky (x) | 4 | 10 | 7 | 6 | 9 |
|---|---|---|---|---|---|
| Price in dollars (y) | 52 | 130 | 91 | 78 | 117 |

For every pound of beef jerky it cost 13 dollars.

**5)**

| Pieces of Chicken (x) | 2 | 7 | 10 | 3 | 6 |
|---|---|---|---|---|---|
| Price in dollars (y) | 2 | 7 | 10 | 3 | 6 |

For each piece of chicken it costs 1 dollars.

**6)**

| Chocolate Bars (x) | 8 | 6 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Calories (y) | 2,856 | 2,142 | 714 | 1,071 | 1,428 |

Every chocolate bar has 357 calories.

**7)**

| Enemies Destroyed (x) | 8 | 7 | 4 | 9 | 3 |
|---|---|---|---|---|---|
| Points Earned (y) | 152 | 133 | 76 | 171 | 57 |

Every enemy destroyed earns 19 points.

**8)**

| Concrete Blocks (x) | 8 | 7 | 4 | 5 | 9 |
|---|---|---|---|---|---|
| weight in kilograms (y) | 80 | 70 | 40 | 50 | 90 |

Every concrete block weighs 10 kilograms.

## Answers

Ex. y = 27x

1. y = 22x
2. y = 15x
3. y = 3x
4. y = 13x
5. y = 1x
6. y = 357x
7. y = 19x
8. y = 10x