

Name: \_\_\_\_\_

# Independent and Dependent Variables

## Making Tables from Equations

Use the given equation to complete each table. Then identify what the dependent ( $y$ ) and independent ( $x$ ) variables represent based on the scenario.

1. A company makes \$4 in profit off each teddy bear it sells.

**Equation:**  $y = 4x$

**Dependent variable:** \_\_\_\_\_

**Independent variable:** \_\_\_\_\_

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| <b>x</b> | 1 | 2 | 3 | 4 | 5 |
| <b>y</b> |   |   |   |   |   |



3. Rosalina has a store coupon for half off the price of one item.

**Equation:**  $y = \frac{x}{2}$

**Dependent variable:** \_\_\_\_\_

**Independent variable:** \_\_\_\_\_

|          |    |    |    |    |    |
|----------|----|----|----|----|----|
| <b>x</b> | 15 | 20 | 25 | 30 | 35 |
| <b>y</b> |    |    |    |    |    |

4. A shop has 100 hats to give away to its first 100 customers.

**Equation:**  $y = 100 - x$

**Dependent variable:** \_\_\_\_\_

**Independent variable:** \_\_\_\_\_

|          |   |    |    |    |    |
|----------|---|----|----|----|----|
| <b>x</b> | 6 | 12 | 18 | 24 | 30 |
| <b>y</b> |   |    |    |    |    |

# ANSWER KEY

## Independent and Dependent Variables

### Making Tables from Equations

Use the given equation to complete each table. Then identify what the dependent ( $y$ ) and independent ( $x$ ) variables represent based on the scenario.

1. A company makes \$4 in profit off each teddy bear it sells.

**Equation:**  $y = 4x$

**Dependent variable:** total profit

**Independent variable:** number of teddy bears sold

# Preview

Please log in to download  
the printable version of this worksheet.



|   |    |    |    |    |    |
|---|----|----|----|----|----|
| x | 6  | 12 | 18 | 24 | 30 |
| y | 94 | 88 | 82 | 76 | 70 |