# INVERSE VARIATION

| RECALL: DIRECT VARIATION | INVERSE VARIATION |
|---|---|

**A DIRECT VARIATION** has the form

$$y = kx$$

where, $k \neq 0$.

The value k is the constant of variation.

**An INVERSE VARIATION** has the form

$$xy = k \quad \text{or} \quad y = \frac{k}{x} \quad \text{or} \quad x = \frac{k}{y}$$

where, $k \neq 0$.

When one quantity increases, the other decreases proportionally. The value k is the constant of variation.

**GUIDED EXAMPLE 1:**
Find the constant of variation and use it to write a direct variation equation to represent the table below.

| x | y |
|---|---|
| 1 | 5 |
| 4 | 20 |
| 9 | 45 |
| 10 | 50 |
| 13 | 65 |

**GUIDED EXAMPLE 2:**
Find the constant of variation and use it to write an inverse variation equation to represent the table below.

| x | y |
|---|---|
| 0.5 | 24 |
| 1 | 12 |
| 2 | 6 |
| 3 | 4 |
| 4 | 3 |

Determine if the relationship between the values in each table represents a direct variation, an inverse variation, or neither. Then, write an equation to model the direct and inverse variations.

**1**

| x | y |
|---|---|
| 0.25 | 160 |
| 5 | 8 |
| 10 | 4 |
| 20 | 2 |
| 40 | 1 |

**2**

| x | y |
|---|---|
| 1 | 28 |
| 2 | 14 |
| 4 | 7 |
| 10 | 2.8 |
| 14 | 2 |

**3**

| x | y |
|---|---|
| 2 | 18 |
| 3 | 27 |
| 5 | 45 |
| 9 | 81 |
| 10 | 90 |

**4**

| x | y |
|---|---|
| 0 | 3 |
| 1 | 6 |
| 2 | 12 |
| 3 | 24 |
| 4 | 48 |

**5**

| x | y |
|---|---|
| 2 | 5 |
| 6 | 15 |
| 10 | 25 |
| 14 | 35 |
| 24 | 60 |

**6**

| x | y |
|---|---|
| 2 | 50 |
| 4 | 25 |
| 5 | 20 |
| 10 | 10 |
| 50 | 2 |

# [Practice Variation Algebra 2 Unit Lesson 01](#)

**L Cohen**

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