

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

# Equations with 2 Variables



Determine the value of the unknown variable in each equation.

$10 + a = b$

$a = 7, b = \underline{\hspace{2cm}}$

$g - 2 = h$

$g = 10, h = \underline{\hspace{2cm}}$

$12n = m$

$n = \underline{\hspace{2cm}}, m = 36$

$\frac{16}{v} = w$

$v = 2, w = \underline{\hspace{2cm}}$

$e + 9 = f$

$e = \underline{\hspace{2cm}}, f = 17$

|              |   |    |   |    |    |
|--------------|---|----|---|----|----|
| $x + 14 = y$ |   |    |   |    |    |
| x            | 4 |    | 9 |    |    |
| y            |   | 20 |   | 25 | 30 |

|          |   |    |   |    |    |
|----------|---|----|---|----|----|
| $5y = z$ |   |    |   |    |    |
| y        | 2 |    | 6 |    | 12 |
| z        |   | 20 |   | 45 |    |

|             |    |    |    |    |    |
|-------------|----|----|----|----|----|
| $a - 6 = b$ |    |    |    |    |    |
| a           | 12 | 15 |    | 28 |    |
| b           |    |    | 18 |    | 50 |

|                   |   |   |   |    |    |
|-------------------|---|---|---|----|----|
| $\frac{r}{2} = s$ |   |   |   |    |    |
| r                 |   | 4 | 8 | 14 |    |
| s                 | 1 |   |   |    | 11 |

|                    |   |    |    |    |   |
|--------------------|---|----|----|----|---|
| $\frac{50}{n} = m$ |   |    |    |    |   |
| n                  | 2 |    | 10 | 25 |   |
| m                  |   | 10 |    |    | 1 |

|             |   |   |   |   |   |
|-------------|---|---|---|---|---|
| $9 - x = y$ |   |   |   |   |   |
| x           | 0 | 3 | 5 |   | 9 |
| y           |   |   |   | 1 |   |

# ANSWER KEY

## Equations with 2 Variables

Determine the value of the unknown variable in each equation.

$$10 + a = b$$

$$a = 7, b = \underline{17}$$

$$g - 2 = h$$

$$g = 10, h = \underline{8}$$



$$12n = m$$

$$n = \underline{3}, m = 36$$

$$\frac{16}{v} = w$$

$$v = 2, w = \underline{8}$$

$$e + 9 = f$$

$$e = \underline{8}, f = 17$$

$$x + 14 = y$$

|   |           |          |           |           |           |
|---|-----------|----------|-----------|-----------|-----------|
| x | 4         | <u>6</u> | 9         | <u>11</u> | <u>16</u> |
| y | <u>18</u> | 20       | <u>23</u> | 25        | 30        |

$$5y = z$$

|   |           |          |           |          |           |
|---|-----------|----------|-----------|----------|-----------|
| y | 2         | <u>4</u> | 6         | <u>9</u> | 12        |
| z | <u>10</u> | 20       | <u>30</u> | 45       | <u>60</u> |

$$a - 6 = b$$

|   |          |          |           |           |           |
|---|----------|----------|-----------|-----------|-----------|
| a | 12       | 15       | <u>24</u> | 28        | <u>56</u> |
| b | <u>6</u> | <u>9</u> | 18        | <u>22</u> | 50        |

$$\frac{r}{2} = s$$

|   |          |          |          |          |           |
|---|----------|----------|----------|----------|-----------|
| r | <u>2</u> | 4        | 8        | 14       | <u>22</u> |
| s | 1        | <u>2</u> | <u>4</u> | <u>7</u> | 11        |

$$\frac{50}{n} = m$$

|   |           |          |          |          |           |
|---|-----------|----------|----------|----------|-----------|
| n | 2         | <u>5</u> | 10       | 25       | <u>50</u> |
| m | <u>25</u> | 10       | <u>5</u> | <u>2</u> | 1         |

$$9 - x = y$$

|   |          |          |          |          |          |
|---|----------|----------|----------|----------|----------|
| x | 0        | 3        | 5        | <u>8</u> | 9        |
| y | <u>9</u> | <u>6</u> | <u>4</u> | 1        | <u>0</u> |