

**Algebra I Class Worksheet #1 Unit 4 page 1** \_\_\_\_\_

Complete the table for each input-output chart shown to solve for x.

|                       | 1.                               | 2.                               | 3.                               | 4.          |
|-----------------------|----------------------------------|----------------------------------|----------------------------------|-------------|
| <b>Input</b>          | $x + 7 = 13$                     | $x + 7 = m$                      | $x + c = m$                      | $x + p = w$ |
| <b>Operation</b><br>↓ | subtract 7<br>from<br>both sides | subtract 7<br>from<br>both sides | subtract c<br>from<br>both sides |             |
| <b>Output</b><br>↓    |                                  |                                  |                                  |             |

|                       | 5.                        | 6.                        | 7.                        | 8.          |
|-----------------------|---------------------------|---------------------------|---------------------------|-------------|
| <b>Input</b>          | $x - 7 = 12$              | $x - 7 = k$               | $x - z = k$               | $x - p = t$ |
| <b>Operation</b><br>↓ | add 7<br>to<br>both sides | add 7<br>to<br>both sides | add z<br>to<br>both sides |             |
| <b>Output</b><br>↓    |                           |                           |                           |             |

|                       | 9.                           | 10.                          | 11.                          | 12.      |
|-----------------------|------------------------------|------------------------------|------------------------------|----------|
| <b>Input</b>          | $4x = 20$                    | $4x = h$                     | $cx = h$                     | $kx = w$ |
| <b>Operation</b><br>↓ | divide<br>both sides<br>by 4 | divide<br>both sides<br>by 4 | divide<br>both sides<br>by c |          |
| <b>Output</b><br>↓    |                              |                              |                              |          |

|                       | 13.                            | 14.                            | 15.                            | 16.               |
|-----------------------|--------------------------------|--------------------------------|--------------------------------|-------------------|
| <b>Input</b>          | $\frac{x}{5} = 6$              | $\frac{x}{5} = d$              | $\frac{x}{a} = d$              | $\frac{x}{k} = w$ |
| <b>Operation</b><br>↓ | multiply<br>both sides<br>by 5 | multiply<br>both sides<br>by 5 | multiply<br>both sides<br>by a |                   |
| <b>Output</b><br>↓    |                                |                                |                                |                   |

## Algebra I Class Worksheet #1 Unit 4 page 2

Complete the table for each input-output chart shown to solve for x.

|                       | 17.          | 18.         | 19.       | 20.               |
|-----------------------|--------------|-------------|-----------|-------------------|
| <b>Input</b>          | $x + 6 = 14$ | $x - 9 = 3$ | $6x = 30$ | $\frac{x}{3} = 9$ |
| ↓<br><b>Operation</b> |              |             |           |                   |
| ↓<br><b>Output</b>    |              |             |           |                   |

|                       | 21.         | 22.         | 23.      | 24.               |
|-----------------------|-------------|-------------|----------|-------------------|
| <b>Input</b>          | $x + h = k$ | $x - g = w$ | $mx = k$ | $\frac{x}{w} = v$ |
| ↓<br><b>Operation</b> |             |             |          |                   |
| ↓<br><b>Output</b>    |             |             |          |                   |

Solve for x.

25.  $x + 7 = 19$

26.  $x + 7 = d$

27.  $x + n = d$

28.  $x - 7 = 2$

29.  $x - 7 = a$

30.  $x - b = a$

31.  $8x = 56$

32.  $8x = w$

33.  $px = k$

34.  $\frac{x}{6} = 2$

35.  $\frac{x}{6} = d$

36.  $\frac{x}{c} = h$