

# Inverse Operations to Solve Equations

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

Date: \_\_\_\_\_

**Instructions:** Use inverse operations to solve for the variable. Show your working out.

*Remember: Addition  $\leftrightarrow$  Subtraction | Multiplication  $\leftrightarrow$  Division*

## Section A: Addition and Subtraction

**1.  $x + 7 = 15$**

Working:

\_\_\_\_\_

$x =$  \_\_\_\_\_

**2.  $m - 9 = 12$**

Working:

\_\_\_\_\_

$m =$  \_\_\_\_\_

**3.  $23 = n + 8$**

Working:

\_\_\_\_\_

$n =$  \_\_\_\_\_

**4.  $y - 14 = 6$**

Working:

\_\_\_\_\_

$y =$  \_\_\_\_\_

**5.  $p + 25 = 40$**

Working:

\_\_\_\_\_

$p =$  \_\_\_\_\_

**6.  $18 = q - 5$**

Working:

\_\_\_\_\_

$q =$  \_\_\_\_\_

## Section B: Multiplication and Division

**7.  $3a = 21$**

Working:

\_\_\_\_\_

$a =$  \_\_\_\_\_

**8.  $b \div 4 = 7$**

Working:

\_\_\_\_\_

$b =$  \_\_\_\_\_

**9.  $6c = 48$**

Working:

\_\_\_\_\_

**10.  $d \div 5 = 9$**

Working:

\_\_\_\_\_

$$c = \underline{\hspace{2cm}}$$

$$d = \underline{\hspace{2cm}}$$

**11.  $8e = 64$**

Working:

$\underline{\hspace{4cm}}$

$$e = \underline{\hspace{2cm}}$$

**12.  $60 = 10f$**

Working:

$\underline{\hspace{4cm}}$

$$f = \underline{\hspace{2cm}}$$

### Challenge Problems

**13.  $g + 17 = 50$**

$$g = \underline{\hspace{2cm}}$$

**14.  $7h = 91$**

$$h = \underline{\hspace{2cm}}$$

**15.  $k \div 8 = 12$**

$$k = \underline{\hspace{2cm}}$$