

**Solving & Writing Equations****Practice: Solving Equations**

Solve each equation using its inverse operation and the property of equality. Show your work.

1.  $x + 18 = 34$        $x =$  \_\_\_\_\_

7.  $8a = \frac{4}{9}$        $a =$  \_\_\_\_\_

2.  $y - 15 = 9$        $y =$  \_\_\_\_\_

8.  $10g = \frac{4}{6}$        $g =$  \_\_\_\_\_

3.  $7k = 84$        $k =$  \_\_\_\_\_

9.  $n + 6.3 = 9.1$        $n =$  \_\_\_\_\_

4.  $\frac{m}{6} = 13$        $m =$  \_\_\_\_\_

10.  $p - 8.5 = 2.7$        $p =$  \_\_\_\_\_

5.  $\frac{2}{3} + s = \frac{5}{6}$        $s =$  \_\_\_\_\_

11.  $3.2d = 40$        $d =$  \_\_\_\_\_

6.  $j - \frac{2}{5} = \frac{1}{10}$        $j =$  \_\_\_\_\_

12.  $\frac{3w}{4} = 15$        $w =$  \_\_\_\_\_

**Practice: Writing & Solving Equations**

Write and solve an algebraic equation for each problem. Show your work.

1. When a number is doubled, the result is 48. What is the number?

2. After students borrowed 28 novels from the school library, there were 35 novels left. How many novels were in the school library at first?

3. In a swimming class,  $\frac{2}{5}$  of the participants are girls. There are 24 boys in the class. Find the total number of participants in the class.