

# Solving for x in Equations

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

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

**Instructions:** Use inverse operations to solve each equation. Show your working out and write the value of x.

## Section A: Addition Equations

1.  $x + 7 = 15$      $x =$  \_\_\_\_\_

2.  $x + 12 = 30$      $x =$  \_\_\_\_\_

3.  $x + 23 = 50$      $x =$  \_\_\_\_\_

4.  $x + 45 = 100$      $x =$  \_\_\_\_\_

## Section B: Subtraction Equations

5.  $x - 9 = 14$      $x =$  \_\_\_\_\_

6.  $x - 15 = 25$      $x =$  \_\_\_\_\_

7.  $x - 18 = 42$      $x =$  \_\_\_\_\_

8.  $x - 37 = 63$      $x =$  \_\_\_\_\_

## Section C: Multiplication Equations

9.  $5x = 35$      $x =$  \_\_\_\_\_

10.  $8x = 72$      $x =$  \_\_\_\_\_

11.  $6x = 48$      $x =$  \_\_\_\_\_

12.  $9x = 81$      $x =$  \_\_\_\_\_

## Section D: Division Equations

13.  $x \div 4 = 7$      $x =$  \_\_\_\_\_

14.  $x \div 5 = 12$      $x =$  \_\_\_\_\_

15.  $x \div 6 = 9$      $x =$  \_\_\_\_\_

16.  $x \div 10 = 8$      $x =$  \_\_\_\_\_

 **Challenge Questions**

17.  $24 = x + 9$      $x =$  \_\_\_\_\_

18.  $60 = 12x$      $x =$  \_\_\_\_\_