

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

Key

Period: \_\_\_\_\_

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

Show your work! Solve the equation. Circle your answer.

1)  $9 - x = -8$   
 $x = 17$

2)  $5x - 2 = 16$   
 $x = 6$

3)  $\frac{x}{6} = 4$   
 $x = 24$

4)  $-4x = -14$   
 $x = \frac{7}{2}$

5)  $\frac{3}{4}x + 2 = 17$   
 $x = \frac{52}{3}$

6)  $10 + \frac{2}{3}x = 0$   
 $\frac{2}{3}x = -10$   
 $x = -15$

7)  $x + 6 = 3(5 - x)$   
 $x + 6 = 15 - 3x$   
 $4x = 9$   
 $x = \frac{9}{4}$

8)  $6x = \frac{3}{2}(5x - 2)$   
 $5x = 4x - \frac{3}{2}$   
 $x = \frac{3}{2}$

9)  $\frac{1}{2}(14x + 2) = 3(2 - 3x)$   
 $7x + 1 = 6 - 9x$   
 $16x = 5$      $x = \frac{5}{16}$

10)  $\frac{3}{4}(9x + 2) = 3$   
 $7x + \frac{3}{2} = 3$   
 $7x = \frac{3}{2}$   
 $x = \frac{3}{14}$

11)  $x + 4 = 2x - 8(\frac{1}{2}x - \frac{1}{4})$   
 $x + 4 = 2x - 2x + 2$   
 $x = -2$

12)  $x - 2 = \frac{1}{2}6(3 - x)$   
 $x - 2 = 9 - 3x$   
 $4x = 11$   
 $x = \frac{11}{4}$

13)  $\frac{x+1}{3} = 4$   
 $x+1 = 12$   
 $x = 11$

14)  $\frac{2x}{5} = \frac{x+1}{2}$   
 $4x = 5x + 5$   
 $x = -5$