

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