

Name: _____

Date: _____

Page 1 of 3

Fraction Busters

To eliminate fractions from an equation, multiply both sides of the equation by the *least common denominator* of all the fractions in the equation. Practice this method on the following equations.

$$1. -\frac{3}{8}p + \frac{7}{8} = \frac{19}{8} \quad p = -4$$

$$2. \frac{5}{6}x + \frac{7}{6} = \frac{2}{6}$$

$$5x + 7 = -2$$

$$\frac{5x}{5} = \frac{-5}{5}$$

$$x = -1$$

$$3. \frac{5}{4}x + \frac{2}{4} = \frac{5}{4}$$

$$30x + 6 = 15$$

$$30x = 9$$

$$x = \frac{3}{10}$$

$$4. \frac{1}{5}x + \frac{3}{10} = -4$$

$$2x + 3 = -40$$

$$2x = -43$$

$$x = -\frac{43}{2}$$

$$5. \frac{1}{6}x + 4 = \frac{5}{6}$$

$$6. \frac{12+x}{4} = 8$$

$$12+x = 32$$

$$x = 20$$

Name:

Date:

Page 2 of 3

3. $\frac{3}{7}a - \frac{1}{7} = a + \frac{2}{7}$

$$9a - 6 = 12a + 8$$

$$-6 = 3a + 8$$

$$\frac{-14}{3} = \frac{3a}{1}$$

9. $4x - 5 = \frac{1}{5}(5x + 20)$

$$20x - 25 = 5x + 20$$

$$15x - 25 = 20$$

$$15x = 45$$

$$x = 3$$

11. $-\frac{2}{3}x + \frac{4}{3} = -\frac{10}{3}$

8. $\frac{1}{8} + \frac{5}{8}x - \frac{1}{2} = \frac{1}{2}x + \frac{7}{8}$

$$1 + 5x - 4 = 4x + 7$$

$$5x - 3 = 4x + 7$$

$$x - 3 = 7$$

$$x = 10$$

10. $8y - 6 = \frac{2}{3}(6y + 15)$

$$24y - 18 = 2(6y + 15)$$

$$24y - 18 = 12y + 30$$

$$12y - 18 = 30$$

$$12y = 48$$

$$y = 4$$

12. $\frac{4}{5} + 3x = \frac{3}{5}$

Name: _____

Date: _____

Page 3 of 3

13. $\frac{2}{7}x + \frac{4}{7} = -3$

14. $\frac{2+w}{3} = 10$

15. $\frac{2}{3}y - \frac{11}{6} = 28$

16. $-\frac{1}{6}x + 1 = \frac{7}{9}$

17. $\frac{2}{7}y + 15 = \frac{12}{14}y + 9$

18. $\frac{5}{6}x - \frac{3}{8}x = \frac{1}{2}x - 2$