

Name _____

Date _____

Mrs. Roubos

8R Period _____

How do we solve equations that have fractions

I. Solving 2-step equations with fractions

A) Steps: 1)

2)

B) Examples: Solve for the variable

1) $\frac{r+7}{4} = 5$

2) $\frac{t-3}{2} = 75$

3) $\frac{r-12}{7} = -6$

4) $\frac{x+7}{11} = 11$

*5) $\frac{3y+5y}{3} = 8$

II. Solving multi-step equations with fractions

A) Steps: 1)

2)

B) Examples: Solve for the variable

1) $\frac{3}{4}x - \frac{1}{5}x = 11$

2) $\frac{3}{7}x - \frac{2}{3} = \frac{10}{7}$

$$3) \frac{y}{4} + \frac{y}{3} = \frac{7}{12}$$

$$4) \frac{x}{3} - \frac{3x}{4} + \frac{1}{2} = -\frac{1}{3}$$

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

$$6) \frac{1}{2}x + 6 - 2x + \frac{1}{2} = \frac{7}{2}$$

$$7) 2\frac{1}{3}x + 10 + 5\frac{2}{3}x - 9\frac{1}{2} = 12\frac{1}{2}$$

$$8) \frac{4}{5}k + \frac{7}{10} = \frac{13}{15}k - \frac{3}{5}$$

$$9) \frac{3}{4} + \frac{4a}{7} = \frac{6a}{7} + \frac{7}{8}$$

$$10) \frac{1}{8} + \frac{6a}{5} = \frac{3}{8} + \frac{2a}{5} + \frac{7}{8}$$