

$$1) \left( \frac{3 \cdot 2}{8} a = \frac{5}{20} \right) 16$$

$$\frac{6a}{6} = \frac{5}{6}$$

$$a = \frac{5}{6}$$

$$2) \left( \frac{11}{12} x - \frac{3}{4} x = -\frac{5}{6} \right) 12$$

$$11x - 9x = -10$$

$$2x = -10$$

$$x = -5$$

$$3) \left( \frac{7}{8} r + \frac{1}{4} = \frac{3}{4} + \frac{3}{8} r \right) 8$$

$$7r + 2 = 6 + 3r$$

$$-3r \quad -3r$$

$$4r + 2 = 6$$

$$-2 \quad -2$$

$$4r = 4$$

$$r = 1$$

$$4) \left( -\frac{4}{15} n + \frac{2}{3} = \frac{2}{3} \right) 15$$

$$-4n + 10 = 6$$

$$-10 \quad -10$$

$$-4n = -4$$

$$n = 1$$

$$5) \left( \frac{19}{20} + \frac{1}{5} d = \frac{4}{5} + \frac{7}{20} d \right) 20$$

$$19 + 4d = 16 + 7d$$

$$-4d \quad -4d$$

$$19 = 16 + 3d$$

$$-16 \quad -16$$

$$3 = 3d$$

$$d = 1$$

$$6) \left( \frac{2}{8} g + 2 = \frac{4}{7} \right) 35$$

$$14g + 70 = 20$$

$$-70 \quad -70$$

$$14g = -50$$

$$14 \quad 14$$

$$g = \frac{-25}{7} \text{ or } -3\frac{4}{7}$$

$$7) \left( \frac{7}{4} z - \frac{1}{8} = \frac{17}{8} + \frac{3}{4} z \right) 12$$

$$21z - 2 = 34 + 9z$$

$$-9z \quad -9z$$

$$12z - 2 = 34$$

$$+2 \quad +2$$

$$12z = 36$$

$$z = 3$$

$$9) \left( \frac{k}{5} + \frac{3k}{20} = \frac{3}{2} \right) 10$$

$$2k + 3k = 15$$

$$\frac{5k}{5} = \frac{15}{5}$$

$$k = 3$$

$$10) \left( \frac{1}{2} (m + 4) = 6 + \frac{3}{2} m \right) 10$$

$$5m + 20 = 60 + 6m$$

$$-5m \quad -5m$$

$$20 = 60 + 1m$$

$$-60 \quad -60$$

$$-40 = 1m$$