

**0.6 Practice - Solve Multi-Step Equations (Fractions)**

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**Solve each equation.**

1)  $\frac{20}{3} = x + \frac{19}{6}$

2)  $-\frac{61}{12} = b - \frac{4}{3}$

3)  $\frac{7}{12} = \frac{7}{9}m$

4)  $-\frac{22}{9}r = \frac{11}{9}$

5)  $\frac{9}{4} = -\frac{3}{2}n + 4\frac{3}{4}$

6)  $-\frac{11}{2} = -2\frac{1}{3} + 3\frac{1}{6}k$

7)  $\frac{5}{7}\left(\frac{3}{2} + n\right) = \frac{145}{84}$

8)  $\frac{7}{4}(b - 1) = \frac{7}{8}$

$$9) \quad 64 = -\frac{15}{4}\left(2x - \frac{2}{3}\right) - \frac{11}{4}x$$

$$10) \quad \frac{220}{3} = \frac{19}{6}\left(\frac{9}{4}r + \frac{7}{2}\right) + \frac{13}{4}r$$

$$11) \quad -\frac{5}{3}\left(\frac{4}{3}k + \frac{8}{5}\right) = -3\frac{1}{4}k - \frac{53}{6}$$

$$12) \quad -\frac{2}{3}\left(a + \frac{7}{2}\right) = -\frac{227}{36} + \frac{3}{2}a$$

$$13) \quad \frac{4}{5}\left(a - \frac{7}{3}\right) - \frac{1}{3}\left(-\frac{4}{3}a + 1\right) = -\frac{1}{3}$$

$$14) \quad -\frac{19}{6}\left(-\frac{4}{3}n + \frac{2}{3}\right) + \frac{5}{6}\left(-\frac{16}{3}n + \frac{11}{3}\right) = \frac{47}{54}$$

## Answers to 0.6 Practice - Solve Multi-Step Equations (Fractions)

1)  $\left\{\frac{7}{2}\right\}$

2)  $\left\{-\frac{15}{4}\right\}$

3)  $\left\{\frac{3}{4}\right\}$

4)  $\left\{-\frac{1}{2}\right\}$

5)  $\left\{\frac{5}{3}\right\}$

6)  $\{-1\}$

7)  $\left\{\frac{11}{12}\right\}$

8)  $\left\{\frac{3}{2}\right\}$

9)  $\{-6\}$

10)  $\{6\}$

11)  $\{-6\}$

12)  $\left\{\frac{11}{6}\right\}$

13)  $\left\{\frac{3}{2}\right\}$

14)  $\left\{\frac{1}{3}\right\}$