

Practice solving equations with fractions

Solve each equation.

1) $-\frac{7}{8}n - \frac{443}{96} = \frac{7}{6}n + 1$

2) $n - \frac{7}{6} = -\frac{409}{96} + \frac{15}{4}n$

3) $\frac{17}{4}p + \frac{5}{3}p = \frac{115}{24} + p + \frac{5}{3} - 4$

4) $\frac{201}{98} + \frac{3}{7}x = \frac{1}{2}x + \frac{15}{7}$

5) $-\frac{1867}{168} - \frac{2}{7}x + \frac{27}{7}x = \frac{5}{4}x - \frac{2}{3}$

6) $-\frac{38}{3} - 2x + \frac{13}{8}x = 4x - \frac{8}{3}$

7) $\frac{17}{6}n + 2n = \frac{31}{6} + \frac{8}{7}n$

8) $\frac{9}{2}n - \frac{739}{96} = -\frac{7}{4}n - \frac{2}{3}$

9) $\frac{153}{40} + \frac{19}{5}a - \frac{2}{5}a = \frac{19}{4}a + \frac{9}{4}$

10) $n + \frac{13}{3} = \frac{27}{2} - \frac{2}{3}n$

11) $\frac{9}{2}a + \frac{3}{4} = \frac{75}{16} + \frac{11}{4}a - \frac{1}{2}a$

12) $-\frac{8}{5}n - \frac{87}{10} = -\frac{2}{3}n - \frac{7}{6} + \frac{17}{6}n$

13) $p + \frac{7}{6} = -\frac{23}{6}p + \frac{499}{30}$

14) $-\frac{103}{48} + \frac{7}{6}r - \frac{11}{6} + 1 = \frac{3}{4}r + \frac{1}{4}$

15) $\frac{4}{3}x + \frac{9}{4}x + \frac{7649}{1680} = \frac{4}{7}x + \frac{19}{5}$

16) $\frac{8}{5}n - \frac{19}{8}n = \frac{7}{5}n + 2n - \frac{167}{35}$

Answers to Practice solving equations with fractions

1) $\left\{-\frac{11}{4}\right\}$

5) $\left\{\frac{9}{2}\right\}$

9) $\left\{\frac{7}{6}\right\}$

13) $\left\{\frac{16}{5}\right\}$

2) $\left\{\frac{9}{8}\right\}$

6) $\left\{-\frac{16}{7}\right\}$

10) $\left\{\frac{11}{2}\right\}$

14) $\left\{\frac{31}{4}\right\}$

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

7) $\left\{\frac{7}{5}\right\}$

11) $\left\{\frac{7}{4}\right\}$

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

4) $\left\{-\frac{9}{7}\right\}$

8) $\left\{\frac{9}{8}\right\}$

12) $\{-2\}$

16) $\left\{\frac{8}{7}\right\}$