

Absolute Value Equations - Fractions #2

Solve each equation.

1) $2\frac{2}{3} + \left| \frac{1}{2}n + \frac{8}{3} \right| = \frac{16}{3}$

2) $\frac{1}{2} \cdot \left| \frac{1}{2}p + \frac{3}{2} \right| = \frac{3}{4}$

3) $\left| 1 - \frac{5}{2}n \right| + 2 = \frac{23}{6}$

4) $\frac{2 \left| -\frac{5}{3}x + \frac{3}{2} \right| - 5}{2} = -\frac{11}{9}$

5) $\frac{3 \left| -1 + \frac{3}{2}m \right| + 4}{3} = \frac{13}{3}$

6) $\frac{1}{2} + \left| \frac{8}{3}v - \frac{3}{2} \right| = 3$

7) $\frac{2}{3} \cdot \left| r - \frac{4}{3} \right| = \frac{17}{9}$

8) $-\frac{3}{2} \cdot \left| 2n - \frac{1}{2} \right| = -\frac{15}{4}$

9) $\frac{1}{2} \cdot \left| \frac{5}{3}n - \frac{5}{3} \right| = \frac{5}{12}$

10) $-\frac{5}{3} \cdot \left| x + \frac{4}{3} \right| = -\frac{5}{9}$

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

12) $-\left| \frac{5}{3}k + \frac{2}{3} \right| + \frac{1}{2} = \frac{1}{3}$

13) $-\frac{1}{2} \cdot \left| 2r - \frac{7}{2} \right| - \frac{8}{3} = -\frac{11}{4}$

14) $\frac{1}{3} \cdot \left| -2 + \frac{10}{3}x \right| + \frac{5}{3} = \frac{113}{27}$

15) $-\frac{5}{2} \cdot \left| 2x + \frac{4}{3} \right| + 2 = -\frac{73}{6}$

16) $\frac{2}{3} \cdot \left| 2a + \frac{3}{2} \right| - 1 = 2$

17) $\frac{5}{3} \cdot \left| \frac{3}{2}p + \frac{5}{3} \right| - 3 = \frac{28}{9}$

18) $\frac{5}{2} \cdot \left| -\frac{4}{3}n + \frac{4}{3} \right| + \frac{1}{3} = 2$

19) $\frac{1}{2} \cdot \left| -\frac{3}{2}n - \frac{2}{3} \right| - \frac{5}{3} = \frac{2}{3}$

20) $\frac{5}{2} \cdot \left| \frac{1}{3}x - \frac{11}{3} \right| - 2 = \frac{82}{9}$