



Two-step equations - fractions

Solve each equation.

$$1) -1 + 2n = -4\frac{11}{15}$$

$$2) -\frac{2}{11} + 4\frac{5}{6}k = 4\frac{25}{528}$$

$$3) 2 + 3\frac{2}{3}p = 41\frac{19}{39}$$

$$4) -2\frac{1}{4}x - 1\frac{1}{2} = -9\frac{3}{4}$$

$$5) 3\frac{5}{6}m + \frac{4}{11} = 14\frac{65}{88}$$

$$6) -\frac{1}{10}r + 1\frac{1}{2} = 1\frac{17}{45}$$

$$7) -\frac{2}{7}x + \frac{13}{9} = \frac{128}{693}$$

$$8) 2 + 12x = 62$$

$$9) 5\frac{1}{2} + 4\frac{1}{6}b = 9\frac{2}{3}$$

$$10) 2\frac{4}{7}n + 4\frac{1}{2} = 1\frac{5}{22}$$

$$11) \frac{2}{5}v - 2\frac{6}{7} = -3\frac{104}{105}$$

$$12) 6\frac{5}{6} + 3\frac{1}{2}n = 10\frac{1}{3}$$

$$13) -2\frac{4}{9}v - 5 = 3\frac{5}{9}$$

$$14) 1\frac{1}{8} + 2\frac{1}{2}x = 21\frac{17}{56}$$

$$15) 6\frac{3}{4} - \frac{21}{11}a = -6\frac{519}{572}$$

$$16) \frac{4}{7}x + 4\frac{1}{2} = 4\frac{13}{14}$$

$$17) 2n + 4\frac{4}{5} = 24\frac{26}{45}$$

$$18) -\frac{1}{4} + 5\frac{3}{4}k = 8\frac{43}{84}$$

$$19) 11n + 2 = -9$$

$$20) 6\frac{9}{10} + 5\frac{1}{3}p = 13\frac{227}{330}$$

$$21) 4\frac{2}{3} + \frac{1}{2}x = 6\frac{7}{69}$$

$$22) \frac{2}{3}n + 8 = 16\frac{23}{36}$$

$$23) 4\frac{7}{12}m - \frac{1}{3} = 40\frac{11}{12}$$

$$24) 6\frac{3}{8}x + 2\frac{1}{3} = 11\frac{43}{48}$$

$$25) \frac{16}{9}r + 1\frac{1}{3} = 1\frac{5}{63}$$

$$26) -5b + 2 = -6\frac{3}{14}$$

$$27) -2v - \frac{7}{6} = 6\frac{1}{6}$$

$$28) -\frac{8}{5} - 12\frac{1}{12}x = 15\frac{7}{480}$$

$$29) -2n + \frac{6}{7} = 6\frac{2}{3}$$

$$30) \frac{2}{3}a + \frac{7}{10} = 8\frac{19}{30}$$

Answers to Two-step equations - fractions

1) $\left\{-1\frac{13}{15}\right\}$

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

3) $\left\{10\frac{10}{13}\right\}$

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

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

6) $\left\{1\frac{2}{9}\right\}$

7) $\left\{4\frac{9}{22}\right\}$

8) $\{5\}$

9) $\{1\}$

10) $\left\{-1\frac{3}{11}\right\}$

11) $\left\{-2\frac{5}{6}\right\}$

12) $\{1\}$

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

14) $\left\{8\frac{1}{14}\right\}$

15) $\left\{7\frac{2}{13}\right\}$

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

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

18) $\left\{1\frac{11}{21}\right\}$

19) $\{-1\}$

20) $\left\{1\frac{3}{11}\right\}$

21) $\left\{2\frac{20}{23}\right\}$

22) $\left\{12\frac{23}{24}\right\}$

23) $\{9\}$

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

25) $\left\{-\frac{1}{7}\right\}$

26) $\left\{1\frac{9}{14}\right\}$

27) $\left\{-3\frac{2}{3}\right\}$

28) $\left\{-1\frac{3}{8}\right\}$

29) $\left\{-2\frac{19}{21}\right\}$

30) $\left\{11\frac{9}{10}\right\}$