



Solve each equation.

$$1) x - 1\frac{5}{8} = 1\frac{35}{72} + 3\frac{1}{3}x$$

$$2) n + 4\frac{2}{5} = \frac{19}{5}n + 5\frac{1}{2}n + \frac{1}{4}$$

$$3) -\frac{1}{2}r + 17\frac{17}{90} = \frac{33}{10}r + 4\frac{1}{10}$$

$$4) -9\frac{9}{20} + 5\frac{1}{5}m + 1\frac{2}{3}m = -2\frac{3}{4}m + \frac{1}{6}$$

$$5) \frac{7}{10}v + 1 = \frac{83}{15} - v$$

$$6) -2a + \frac{13}{5} = 2\frac{4}{15} - 1\frac{4}{5}a$$

$$7) 4\frac{5}{6}b + 4\frac{111}{140} = \frac{4}{5}b - 2\frac{2}{5} + 1\frac{1}{7}$$

$$8) -1\frac{2}{7}x + 8x = -\frac{43}{21} + 1\frac{2}{7}x + \frac{7}{3} + 5\frac{1}{7}$$

$$9) 5\frac{4}{5}n + \frac{1}{3} = \frac{991}{75} + 3\frac{1}{2}n$$

$$10) -5\frac{23}{84} - \frac{1}{2}k - \frac{7}{3}k = -\frac{3}{4}k - 2$$

$$11) -3\frac{3}{4}x + 1\frac{1}{2}x = 9\frac{9}{14} - x + \frac{5}{4}x$$

$$12) 4\frac{1}{7}x + 1 = -16\frac{2}{21} - \frac{14}{9}x$$

$$13) \frac{1}{12} + 1\frac{3}{5}n - 1\frac{4}{9}n = n - 1\frac{1}{2}$$

$$14) -3p - 2p = -\frac{55}{14} - 2p + \frac{1}{7}p$$

$$15) -2\frac{19}{32} - 3\frac{1}{2}n = 1\frac{1}{8}n + 1 - 3\frac{2}{3}n$$

$$16) \frac{11}{9}m + 2 = -2\frac{3}{10}m + 5\frac{1}{8}m - 1\frac{1}{192}$$

$$17) \frac{25}{8}x + \frac{1}{4} = -1\frac{29}{40} + x - \frac{9}{10} - \frac{3}{4}x$$

$$18) 7\frac{17}{175} - 1\frac{6}{7}r = \frac{21}{5}r - 10r$$

$$19) \frac{13}{168} - 1\frac{2}{3}x = \frac{41}{8}x - 6\frac{5}{7}x$$

$$20) -5\frac{3}{80} - \frac{3}{8}n = -2\frac{1}{10}n + 1$$

$$21) b + 3\frac{5}{8} = \frac{3}{2}b + 3\frac{8}{9} - 1\frac{2}{9}b + 1\frac{13}{216}$$

$$22) \frac{11}{6}v + 3\frac{1}{7} = v + \frac{431}{126}$$

$$23) 1\frac{3}{10}x + 3\frac{1}{8}x = \frac{77}{600} + 4\frac{1}{3}x$$

$$24) -\frac{325}{36} + 3\frac{4}{9}x = 1\frac{7}{10}x + 1\frac{7}{8}$$

$$25) -\frac{21}{8}a + 2\frac{1}{10} + \frac{11}{8} = \frac{2}{9}a - 1\frac{3}{4} + 2\frac{5}{6}a - 6\frac{49}{360}$$

$$26) a + \frac{5}{8} = 4\frac{5}{6}a - 5\frac{1}{8}$$

$$27) -2\frac{33}{40} - 1\frac{1}{2}k = k - 1\frac{1}{4} - \frac{11}{8}k$$

$$28) -\frac{41}{10} - \frac{5}{8}p = \frac{3}{2}p + 1$$

$$29) 1\frac{4}{7}x + 1\frac{3}{10}x = \frac{209}{490} + 2\frac{1}{8}x$$

$$30) 1\frac{5}{7}n + 1\frac{1}{2} = -2\frac{2}{3}n + \frac{45}{7}$$

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

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

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

13) $\left\{1\frac{7}{8}\right\}$

17) $\{-1\}$

21) $\left\{1\frac{5}{6}\right\}$

25) $\{2\}$

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

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

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

10) $\left\{-1\frac{4}{7}\right\}$

14) $\left\{1\frac{1}{4}\right\}$

18) $\left\{-1\frac{4}{5}\right\}$

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

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

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

3) $\left\{3\frac{4}{9}\right\}$

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

11) $\left\{-3\frac{6}{7}\right\}$

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

19) $\{1\}$

23) $\left\{1\frac{2}{5}\right\}$

27) $\left\{-1\frac{2}{5}\right\}$

4) $\{1\}$

8) $\{1\}$

12) $\{-3\}$

16) $\left\{1\frac{7}{8}\right\}$

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

24) $\left\{6\frac{1}{4}\right\}$

28) $\left\{-2\frac{2}{5}\right\}$