



Solve each equation.

$$1) x - \frac{60}{49} = \frac{51230}{1421}$$

$$2) 66\frac{580}{649} = 27\frac{2}{11} + b$$

$$3) \frac{29891}{819} = n + 38\frac{25}{91}$$

$$4) -\frac{46}{29} + v = 43\frac{95}{1421}$$

$$5) -49 = -47 + k$$

$$6) x + \frac{47}{25} = -\frac{1497}{25}$$

$$7) a + 36\frac{33}{86} = \frac{267189}{7138}$$

$$8) -20\frac{885}{1292} = n - 38\frac{9}{68}$$

$$9) \frac{169}{506} = x - \frac{29}{22}$$

$$10) n - 6\frac{55}{63} = -7\frac{1528}{3843}$$

$$11) 48\frac{5}{82} + k = 71\frac{110}{123}$$

$$12) \frac{5355}{146} = 36\frac{1}{2} + p$$

$$13) \frac{772}{21} = n - -14$$

$$14) m - 49 = -\frac{43}{63}$$

$$15) 56\frac{933}{940} = 33\frac{9}{20} + x$$

$$16) 1\frac{5}{16} + n = 48\frac{5}{16}$$

$$17) \frac{53}{97} + x = 23\frac{469}{1746}$$

$$18) 50\frac{13}{308} = r + 16\frac{6}{77}$$

$$19) -\frac{43}{35} - b = -\frac{20641}{420}$$

$$20) -\frac{17}{27} = \frac{1}{27} - v$$

$$21) x + 82 = \frac{6438}{65}$$

$$22) 9\frac{119}{219} = 9\frac{64}{73} + x$$

$$23) \frac{6155}{228} = 24\frac{5}{12} + a$$

$$24) 29\frac{24}{31} - k = 29\frac{1015}{2232}$$

$$25) \frac{26}{69} + x = \frac{209}{1104}$$

$$26) n + 39\frac{20}{87} = 73\frac{5}{232}$$

$$27) r - 23\frac{3}{26} = -\frac{4467}{182}$$

$$28) -71\frac{4}{7} = 28\frac{3}{7} + m$$

$$29) 1\frac{191}{588} = p - -\frac{76}{49}$$

$$30) -25\frac{1}{5} = -27 - x$$

1) $\left\{34\frac{24}{29}\right\}$

5) $\{-2\}$

9) $\left\{1\frac{15}{23}\right\}$

13) $\left\{22\frac{16}{21}\right\}$

17) $\left\{22\frac{13}{18}\right\}$

21) $\left\{17\frac{3}{65}\right\}$

25) $\left\{-\frac{3}{16}\right\}$

29) $\left\{-\frac{19}{84}\right\}$

2) $\left\{39\frac{42}{59}\right\}$

6) $\{-58\}$

10) $\left\{-\frac{32}{61}\right\}$

14) $\left\{48\frac{20}{63}\right\}$

18) $\left\{33\frac{27}{28}\right\}$

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

26) $\left\{33\frac{19}{24}\right\}$

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

3) $\left\{-1\frac{7}{9}\right\}$

7) $\left\{1\frac{4}{83}\right\}$

11) $\left\{23\frac{5}{6}\right\}$

15) $\left\{23\frac{51}{94}\right\}$

19) $\left\{47\frac{11}{12}\right\}$

23) $\left\{2\frac{11}{19}\right\}$

27) $\left\{-1\frac{3}{7}\right\}$

4) $\left\{44\frac{32}{49}\right\}$

8) $\left\{17\frac{17}{38}\right\}$

12) $\left\{\frac{13}{73}\right\}$

16) $\{47\}$

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

24) $\left\{\frac{23}{72}\right\}$

28) $\{-100\}$