

Solve each equation.

$$1) \frac{8}{5}x = \frac{2872}{165}$$

$$2) -45\frac{385}{1248} = m - 47\frac{5}{96}$$

$$3) 4\frac{181}{432} = r - \left(-\frac{23}{16}\right)$$

$$4) -25\frac{1247}{2002} = n - 40\frac{45}{77}$$

$$5) -\frac{1703}{81} = -\frac{52}{27}n$$

$$6) \frac{44}{3661} = \frac{72b}{3661}$$

$$7) \frac{92v}{3613} = \frac{3059}{61421}$$

$$8) -\frac{15653}{960} = -\frac{11}{20}x$$

$$9) 36\frac{229}{270} = \frac{31}{30} + n$$

$$10) \frac{1587}{350} = -\frac{59}{50} + a$$

$$11) 38\frac{3152}{6177} = 50\frac{64}{87} - p$$

$$12) \frac{4787}{1836} = k - \left(-2\frac{1}{68}\right)$$

$$13) 37\frac{1}{6} - x = 36\frac{11}{12}$$

$$14) \frac{1}{26} = -\frac{1}{13}n$$

15) $10\frac{83}{400} = \frac{3}{4}m$

16) $\frac{63}{118}r = -\frac{3654}{4661}$

17) $\frac{83x}{2036} = 1\frac{16913}{150664}$

18) $-\frac{2}{35} = \frac{2n}{35}$

19) $v + \left(-\frac{61}{40}\right) = 69\frac{19}{40}$

20) $\frac{743}{336} = b + \frac{11}{21}$

21) $30\frac{61}{77} - n = \frac{39399}{1232}$

22) $2\frac{1985}{4307} = x - \frac{90}{59}$

23) $21\frac{5573}{7566} = 1\frac{10}{97}a$

24) $-\frac{41195}{493} = 44\frac{1}{17}v$

25) $\frac{93}{110} = \frac{62}{35}x$

26) $25\frac{15}{17} = \frac{55}{68}x$

27) $1\frac{1981}{3713} = \frac{73}{79}n$

28) $p + 41\frac{1}{12} = \frac{12779}{324}$

29) $-36\frac{17}{92} + k = -34\frac{1815}{2852}$

30) $-\frac{21}{31} + x = -\frac{3076}{2573}$

1) $\left\{10\frac{29}{33}\right\}$

5) $\left\{10\frac{11}{12}\right\}$

9) $\left\{35\frac{22}{27}\right\}$

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

17) $\left\{27\frac{21}{74}\right\}$

21) $\left\{-1\frac{3}{16}\right\}$

25) $\left\{\frac{21}{44}\right\}$

29) $\left\{1\frac{17}{31}\right\}$

2) $\left\{1\frac{29}{39}\right\}$

6) $\left\{\frac{11}{18}\right\}$

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

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

18) $\{-1\}$

22) $\left\{3\frac{72}{73}\right\}$

26) $\{32\}$

30) $\left\{-\frac{43}{83}\right\}$

3) $\left\{2\frac{53}{54}\right\}$

7) $\left\{1\frac{65}{68}\right\}$

11) $\left\{12\frac{16}{71}\right\}$

15) $\left\{13\frac{61}{100}\right\}$

19) $\{71\}$

23) $\left\{19\frac{55}{78}\right\}$

27) $\left\{1\frac{31}{47}\right\}$

4) $\left\{14\frac{25}{26}\right\}$

8) $\left\{29\frac{31}{48}\right\}$

12) $\left\{\frac{16}{27}\right\}$

16) $\left\{-1\frac{37}{79}\right\}$

20) $\left\{1\frac{11}{16}\right\}$

24) $\left\{-1\frac{26}{29}\right\}$

28) $\left\{-1\frac{52}{81}\right\}$