

**Solve each equation.**

$$1) r - 2\frac{5}{12} = 15\frac{7}{12}$$

$$2) x - 1\frac{6}{17} = -\frac{641}{323}$$

$$3) 38 = -19b$$

$$4) -\frac{88}{15} = 2\frac{11}{15} - m$$

$$5) 9\frac{40}{51} = n + 3\frac{2}{17}$$

$$6) -\frac{5}{7}n = -4\frac{9}{19}$$

$$7) \frac{9}{16} = \frac{x}{2}$$

$$8) \frac{16}{7}v = 20\frac{5}{7}$$

$$9) -\frac{12}{5}n = \frac{84}{85}$$

$$10) a + 1\frac{3}{16} = -\frac{173}{16}$$

$$11) 7\frac{13}{14} + k = 13\frac{3}{7}$$

$$12) 5\frac{2}{11} - p = \frac{263}{55}$$

$$13) 1\frac{1}{13} = n - \frac{12}{13}$$

$$14) -\frac{6}{11} = -\frac{9}{11}m$$

15)  $-\frac{409}{112} = x - 10\frac{7}{16}$

16)  $\frac{3}{16}p = \frac{9}{176}$

17)  $r + \frac{16}{13} = \frac{16}{13}$

18)  $b + \frac{5}{8} = 1\frac{23}{40}$

19)  $\frac{11}{16} = \frac{11n}{71}$

20)  $\frac{13x}{93} = \frac{52}{279}$

21)  $2 + x = \frac{10}{11}$

22)  $a - 3\frac{10}{13} = -2\frac{27}{221}$

23)  $8\frac{43}{104} = n - 1\frac{1}{8}$

24)  $6\frac{17}{48} = \frac{5}{8}x$

25)  $63\frac{9}{25} = 9\frac{9}{10}v$

26)  $-\frac{209}{168} = -\frac{11}{12}x$

27)  $\frac{10}{7}n = \frac{135}{49}$

28)  $1\frac{243}{247} = \frac{7k}{13}$

29)  $\frac{13}{4} = p + 2\frac{11}{12}$

30)  $\frac{11}{10} + x = 2\frac{71}{110}$

1)  $\{18\}$

2)  $\left\{-\frac{12}{19}\right\}$

3)  $\{-2\}$

4)  $\left\{8\frac{3}{5}\right\}$

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

6)  $\left\{6\frac{5}{19}\right\}$

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

8)  $\left\{9\frac{1}{16}\right\}$

9)  $\left\{-\frac{7}{17}\right\}$

10)  $\{-12\}$

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

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

13)  $\{2\}$

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

15)  $\left\{6\frac{11}{14}\right\}$

16)  $\left\{\frac{3}{11}\right\}$

17)  $\{0\}$

18)  $\left\{\frac{19}{20}\right\}$

19)  $\left\{4\frac{7}{16}\right\}$

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

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

22)  $\left\{1\frac{11}{17}\right\}$

23)  $\left\{9\frac{7}{13}\right\}$

24)  $\left\{10\frac{1}{6}\right\}$

25)  $\left\{6\frac{2}{5}\right\}$

26)  $\left\{1\frac{5}{14}\right\}$

27)  $\left\{1\frac{13}{14}\right\}$

28)  $\left\{3\frac{13}{19}\right\}$

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

30)  $\left\{1\frac{6}{11}\right\}$