

Solving linear inequalities

Solve each compound inequality.

$$1) 2n - \frac{15}{4} < -\frac{5}{4}n - \frac{7}{2} \text{ or } \frac{1}{4}n + \frac{8}{3} \leq 2n + \frac{8}{3}$$

$$2) -2 + \frac{5}{3}x \leq -3x - \frac{4}{3} \text{ and } x - \frac{3}{2} < \frac{8}{3}x + \frac{5}{4}$$

$$3) \frac{2}{3}v - \frac{10}{3} \geq \frac{7}{3}v + \frac{3}{2} \text{ and } -\frac{3}{2}v - \frac{13}{4} \leq -\frac{4}{3}v + \frac{3}{2}$$

$$4) 1 - \frac{3}{2}v \geq -\frac{11}{4}v - \frac{2}{3} \text{ and } \frac{5}{2}v + \frac{9}{4} < \frac{3}{2}v + \frac{9}{4}$$

$$5) \frac{3}{2}b + \frac{4}{3} \leq \frac{1}{2}b + \frac{5}{3} < b + \frac{8}{3}$$

$$6) \frac{11}{4}x + \frac{3}{2} \leq -\frac{5}{2}x + \frac{5}{2} \leq 2 + \frac{5}{3}x$$

$$7) \frac{4}{3}p + \frac{1}{2} < -\frac{5}{4}p + \frac{7}{4} \leq \frac{1}{2}p - \frac{10}{3}$$

$$8) \frac{11}{4}a - \frac{5}{3} > -\frac{8}{3}a + \frac{5}{4} \text{ or } \frac{3}{2}a + \frac{1}{2} \geq \frac{5}{3}a + \frac{2}{3}$$

$$9) \frac{3}{4}x + \frac{3}{4} \leq -\frac{7}{2}x + \frac{3}{2} \text{ or } -\frac{2}{3}x + \frac{8}{3} < \frac{5}{3}x - \frac{7}{3}$$

$$10) 1 - \frac{1}{2}b < -\frac{7}{2}b + \frac{3}{2} < \frac{5}{4}b + \frac{2}{3}$$

$$11) \frac{5}{2}x + \frac{7}{3} \geq -\frac{7}{2}x + \frac{8}{3} \text{ and } 3 - \frac{1}{3}x > -1 + \frac{5}{4}x$$

$$12) 2p - \frac{10}{3} < \frac{3}{4}p + \frac{8}{3} \leq p + \frac{11}{4}$$

$$13) -\frac{3}{2}b + \frac{3}{2} < \frac{7}{4}b - \frac{10}{3} \text{ or } \frac{7}{4}b - \frac{4}{3} < -\frac{7}{4}b + \frac{3}{2}$$

$$14) \frac{9}{4}a + \frac{5}{3} > \frac{5}{2}a + \frac{3}{2} \text{ and } -1 + \frac{3}{2}a \geq -\frac{7}{4}a - \frac{3}{2}$$

$$15) -\frac{3}{2}a + \frac{8}{3} \leq 1 + \frac{5}{3}a \text{ or } \frac{11}{4}a + \frac{1}{2} \leq -\frac{7}{3}a + \frac{4}{3}$$

$$16) x + \frac{7}{3} \leq 2 - \frac{3}{2}x < -\frac{11}{3}x + \frac{1}{2}$$

$$17) \frac{4}{3}x + \frac{3}{2} \geq \frac{1}{2}x - \frac{3}{2} \text{ or } -x - \frac{17}{4} \geq 2 + \frac{1}{3}x$$

$$18) \frac{1}{2}k + \frac{3}{2} \leq -\frac{11}{4}k - \frac{5}{2} \leq \frac{1}{2}k + \frac{7}{4}$$

$$19) -1 + \frac{3}{4}r \leq \frac{2}{3}r + \frac{8}{3} < \frac{8}{3}r + \frac{3}{2}$$

$$20) 1 - \frac{1}{2}x \leq \frac{1}{2}x + \frac{8}{3} \text{ and } -\frac{7}{2}x + \frac{5}{3} \geq \frac{1}{3}x + \frac{1}{4}$$

$$21) \frac{4}{3}x - \frac{1}{2} < \frac{1}{3}x + \frac{3}{2} < 2 + \frac{3}{2}x$$

$$22) \frac{1}{2}m + \frac{3}{4} > \frac{2}{3}m + \frac{3}{2} \text{ and } -3m + \frac{1}{4} \geq \frac{5}{3}m - \frac{7}{2}$$

$$23) -2 + \frac{11}{4}m \leq \frac{1}{2}m - \frac{7}{2} \text{ or } -\frac{13}{4}m + \frac{5}{3} < \frac{13}{3}m + \frac{11}{4}$$

$$24) -2x + \frac{1}{3} < -\frac{7}{3}x - \frac{1}{2} \text{ or } -\frac{9}{4}x - \frac{3}{2} > -\frac{7}{2}x + \frac{8}{3}$$

$$25) -\frac{4}{3}n + \frac{1}{4} < \frac{3}{2}n + \frac{1}{3} < \frac{3}{2}n + \frac{7}{3}$$

$$26) 3r - \frac{1}{3} > -\frac{7}{2}r + \frac{8}{3} \text{ and } \frac{7}{3}r - \frac{1}{2} \geq \frac{5}{2}r - \frac{4}{3}$$

$$27) \frac{11}{4}n - \frac{5}{3} \geq 2n - \frac{11}{4} \text{ or } 1 + \frac{3}{4}n < \frac{1}{4}n + \frac{1}{4}$$

$$28) -3 - \frac{5}{3}r < -1 + \frac{5}{3}r < 1 + \frac{1}{4}r$$

$$29) \frac{1}{3}k - \frac{4}{3} \leq \frac{4}{3}k + \frac{1}{2} \text{ or } -\frac{5}{3}k - \frac{7}{2} < -\frac{3}{2}k + \frac{5}{4}$$

$$30) 3 - \frac{9}{4}k > \frac{1}{2}k - \frac{5}{3} \geq -\frac{8}{3}k + \frac{5}{2}$$

$$31) \frac{2}{3}n + \frac{1}{2} > 2n + \frac{3}{2} \text{ or } \frac{9}{4}n + \frac{1}{2} \geq \frac{3}{2}n + \frac{9}{4}$$

$$32) -\frac{1}{4}n - \frac{11}{3} > -\frac{11}{4}n + \frac{9}{4} \text{ or } \frac{9}{4}n + \frac{2}{3} < -\frac{5}{2}n + \frac{9}{4}$$

$$33) -1 - \frac{7}{2}p \leq 2 - \frac{4}{3}p \text{ or } \frac{1}{3}p - \frac{15}{4} > -\frac{7}{4}p - \frac{1}{3}$$

$$34) -1 - \frac{3}{4}v \leq \frac{3}{4}v - \frac{3}{2} \text{ or } \frac{5}{2}v - \frac{8}{3} < -\frac{7}{2}v - \frac{3}{4}$$

$$35) -\frac{1}{2}k + \frac{11}{4} \leq -\frac{3}{2}k + \frac{9}{4} \text{ or } -\frac{3}{2}k + \frac{1}{2} \leq 3k + \frac{1}{2}$$

$$36) 2x - \frac{3}{2} < x - \frac{2}{3} \text{ or } \frac{1}{3}x - \frac{5}{2} \geq 4x - \frac{5}{2}$$

$$37) -\frac{8}{3}x + \frac{11}{3} \geq \frac{11}{4}x - \frac{7}{2} \text{ and } -x - \frac{1}{3} < -\frac{1}{3}x + \frac{1}{4}$$

$$38) a - \frac{3}{2} \geq a + \frac{1}{3} \text{ and } -\frac{13}{4}a + \frac{7}{4} > -2a - \frac{3}{2}$$

$$39) 2x - \frac{3}{2} \leq x + \frac{1}{2} \text{ or } \frac{7}{4}x + \frac{1}{3} \leq 2 + \frac{1}{4}x$$

$$40) \frac{1}{3}a - \frac{3}{2} > \frac{8}{3}a + \frac{7}{4} \text{ or } 1 + \frac{9}{4}a \geq \frac{5}{3}a + \frac{1}{3}$$

$$41) \frac{3}{4}x + \frac{5}{2} \geq -\frac{15}{4}x - \frac{3}{2} \text{ or } -4 + \frac{4}{3}x \geq \frac{3}{2}x + \frac{4}{3}$$

$$42) -\frac{3}{2}x - \frac{1}{3} > \frac{11}{4}x + \frac{1}{3} \text{ or } \frac{3}{2}x + \frac{5}{3} < \frac{7}{3}x - \frac{1}{3}$$

$$43) \frac{11}{4}x + \frac{1}{4} < \frac{2}{3}x + \frac{19}{4} \text{ and } -\frac{11}{3}x + \frac{4}{3} < \frac{5}{3}x + \frac{3}{2}$$

$$44) 2x + \frac{1}{2} \geq -\frac{13}{4}x + \frac{3}{2} \text{ or } \frac{1}{2}x + \frac{3}{2} > \frac{5}{3}x - \frac{13}{4}$$

$$45) 1 + \frac{3}{4}p \leq \frac{1}{3}p + \frac{5}{3} \text{ and } \frac{3}{2}p - \frac{3}{2} < \frac{9}{4}p + \frac{1}{3}$$

$$46) -\frac{10}{3}k + \frac{5}{2} \leq \frac{1}{2}k + \frac{7}{4} \text{ or } -\frac{5}{2}k - \frac{7}{2} > \frac{5}{4}k + \frac{7}{4}$$

$$47) \frac{1}{2}n - \frac{7}{2} \geq -1 + \frac{1}{4}n \text{ or } \frac{1}{4}n - \frac{5}{2} > -2 + \frac{9}{4}n$$

$$48) 1 - \frac{7}{3}x < \frac{11}{4}x - \frac{5}{4} \text{ or } -4x - \frac{11}{3} > x + \frac{3}{2}$$

$$49) 2m + \frac{7}{4} > -\frac{5}{2}m + \frac{3}{4} \text{ or } \frac{5}{3}m + \frac{5}{3} \leq m + \frac{1}{2}$$

$$50) 2 - \frac{5}{3}v > \frac{1}{2}v - \frac{4}{3} \text{ and } -\frac{7}{2}v + \frac{11}{4} \leq -2v + \frac{7}{3}$$

$$51) \frac{2}{3}n + \frac{1}{3} > -2n + \frac{2}{3} \text{ or } -n + \frac{5}{2} \leq -\frac{3}{2}n - \frac{7}{2}$$

$$52) 1 + \frac{1}{3}n \geq -n - \frac{5}{4} \text{ or } -\frac{13}{4}n - \frac{1}{2} \geq -2n - \frac{4}{3}$$

$$53) 1 + \frac{1}{4}k \leq 1 + \frac{5}{2}k \leq \frac{3}{2}k + \frac{11}{4}$$

$$54) 1 - \frac{7}{4}n < -\frac{1}{2}n - \frac{3}{2} \text{ or } \frac{8}{3}n - \frac{11}{3} \leq -2n + \frac{5}{2}$$

$$55) -\frac{7}{3}b - \frac{3}{2} \leq \frac{7}{3}b + \frac{5}{2} \leq -\frac{11}{4}b + \frac{5}{3}$$

$$56) 1 - \frac{9}{4}x > -1 + \frac{1}{2}x \text{ and } -\frac{13}{4}x + \frac{3}{2} < \frac{1}{4}x + \frac{3}{4}$$

$$57) -n - \frac{4}{3} < 3 + \frac{4}{3}n \leq -\frac{13}{3}n + \frac{1}{2}$$

$$58) \frac{3}{4}p - \frac{3}{2} \leq \frac{1}{2}p - \frac{1}{3} \text{ or } -2p - \frac{7}{4} < \frac{1}{2}p + \frac{11}{4}$$

$$59) \frac{3}{2}p + \frac{1}{4} \geq p + \frac{1}{4} \text{ or } \frac{7}{3}p - \frac{7}{4} \leq \frac{1}{2}p - \frac{10}{3}$$

$$60) 1 + \frac{1}{2}x \geq \frac{3}{4}x - \frac{4}{3} > \frac{9}{4}x + \frac{1}{2}$$

$$61) -2n + \frac{1}{2} < \frac{5}{3}n + \frac{5}{3} \text{ and } -1 + \frac{8}{3}n > \frac{3}{2}n - \frac{5}{4}$$

$$62) -x - \frac{3}{4} \leq -2 + \frac{2}{3}x \text{ or } \frac{1}{4}x + \frac{1}{4} \leq -\frac{3}{2}x + \frac{3}{2}$$

$$63) \frac{4}{3}r - \frac{7}{4} > -2 + \frac{5}{2}r \text{ or } \frac{1}{3}r - \frac{1}{2} \leq \frac{3}{2}r - \frac{5}{3}$$

$$64) -2r + \frac{5}{4} \leq r + \frac{2}{3} \text{ and } \frac{7}{3}r - \frac{3}{2} \leq -\frac{9}{4}r + \frac{1}{2}$$

$$65) -\frac{8}{3}a + \frac{1}{4} \geq -\frac{1}{4}a + \frac{1}{4} \text{ and } \frac{1}{2}a - \frac{3}{4} > \frac{1}{4}a - \frac{11}{3}$$

$$66) -3 + \frac{5}{3}n > -\frac{11}{3}n + \frac{4}{3} \text{ and } 2n - \frac{5}{2} < -\frac{3}{2}n + \frac{3}{2}$$

$$67) -\frac{2}{3}n + \frac{7}{2} \leq \frac{7}{3}n - \frac{10}{3} \text{ or } -\frac{9}{4}n + \frac{2}{3} > 2n + \frac{11}{4}$$

$$68) \frac{5}{2}m + \frac{5}{3} \geq -m - \frac{7}{4} \text{ or } 1 - \frac{4}{3}m > -\frac{1}{2}m + \frac{11}{4}$$

$$69) -\frac{11}{4}b + \frac{3}{2} \leq \frac{3}{2}b - \frac{1}{2} \leq 2 + \frac{1}{3}b$$

$$70) 4n + \frac{3}{2} \leq \frac{1}{2}n + \frac{1}{2} \leq 2 + \frac{1}{2}n$$

$$71) \frac{1}{2}r + \frac{1}{3} \geq -\frac{13}{4}r + \frac{4}{3} \text{ or } \frac{3}{4}r + \frac{2}{3} \leq \frac{1}{3}r - \frac{7}{2}$$

$$72) 4 + \frac{5}{3}n \geq -\frac{5}{4}n - \frac{5}{2} \text{ or } 2 + \frac{11}{4}n \geq 2 + \frac{1}{2}n$$

$$73) \frac{3}{2}n + \frac{3}{4} < \frac{4}{3}n + \frac{7}{3} \leq \frac{3}{2}n + \frac{1}{3}$$

$$74) \frac{8}{3}p + \frac{4}{3} < \frac{1}{4}p - \frac{3}{2} \leq \frac{11}{4}p + \frac{3}{2}$$

$$75) -\frac{1}{2}p - \frac{7}{4} > \frac{7}{4}p + \frac{1}{2} \text{ or } -\frac{8}{3}p - \frac{1}{2} \leq \frac{2}{3}p + \frac{1}{2}$$

$$76) \frac{4}{3}b - \frac{13}{4} \leq -\frac{15}{4}b - \frac{15}{4} \text{ or } -1 + \frac{1}{2}b \leq \frac{2}{3}b - \frac{5}{4}$$

$$77) -\frac{7}{4}r + \frac{2}{3} \leq \frac{1}{4}r + \frac{11}{4} \text{ or } \frac{7}{3}r + \frac{3}{4} < \frac{11}{4}r - \frac{1}{2}$$

$$78) -\frac{4}{3}p + \frac{7}{4} \geq \frac{2}{3}p + \frac{5}{2} \text{ or } -\frac{1}{4}p + \frac{1}{2} \leq 1 + \frac{5}{2}p$$

$$79) \frac{1}{2}n + \frac{3}{2} \leq \frac{2}{3}n + \frac{1}{3} \text{ or } n - \frac{5}{4} \leq -\frac{4}{3}n + \frac{5}{4}$$

$$80) -x - \frac{7}{2} > \frac{3}{2}x + \frac{8}{3} \text{ or } -x - \frac{4}{3} < x - \frac{3}{2}$$

$$81) 2 + \frac{1}{2}v > -1 + \frac{3}{2}v \text{ or } \frac{7}{3}v + \frac{1}{2} > \frac{5}{3}v + \frac{3}{4}$$

$$82) -2n - \frac{7}{4} \leq -\frac{5}{2}n + \frac{3}{2} \leq \frac{5}{4}n + \frac{3}{2}$$

$$83) \frac{1}{4}x - \frac{5}{3} \leq -\frac{7}{2}x + \frac{7}{4} < x - \frac{7}{4}$$

$$84) -\frac{9}{4}x + \frac{11}{4} < -\frac{1}{2}x + \frac{2}{3} \leq 2 - \frac{3}{2}x$$

$$85) \frac{1}{2}v - \frac{3}{2} \geq -\frac{5}{2}v - \frac{5}{2} \text{ or } -\frac{3}{2}v - \frac{1}{2} > 1 + \frac{3}{4}v$$

$$86) -\frac{4}{3}n + \frac{1}{2} > \frac{8}{3}n + \frac{1}{2} \text{ or } \frac{8}{3}n + \frac{1}{3} \geq 2 - \frac{11}{4}n$$

87) $1 - \frac{3}{2}n \geq -1 - \frac{5}{3}n$ and $-2 + \frac{1}{2}n \leq -3 - \frac{1}{2}n$

88) $-\frac{7}{2}m + \frac{1}{4} > \frac{1}{3}m + \frac{3}{4}$ and $\frac{2}{3}m - \frac{1}{3} > 2m - \frac{10}{3}$

89) $-\frac{1}{2}m - \frac{5}{3} \geq -\frac{11}{3}m - \frac{8}{3}$ and $2m - \frac{1}{2} \leq 1 + \frac{5}{3}m$

90) $\frac{1}{2}m + \frac{3}{2} < 4m + \frac{5}{3}$ and $-2 + \frac{1}{2}m > -\frac{8}{3}m - \frac{2}{3}$

91) $\frac{3}{4}x + \frac{5}{3} > 2x + \frac{3}{2}$ or $\frac{7}{3}x + \frac{3}{2} \geq 4 - \frac{2}{3}x$

92) $1 + \frac{1}{3}n < -2n + \frac{3}{2}$ and $2n + \frac{5}{4} \leq \frac{11}{4}n + \frac{3}{2}$

93) $2n - \frac{9}{4} \leq \frac{8}{3}n - \frac{11}{3} < \frac{2}{3}n + \frac{4}{3}$

94) $\frac{3}{4}n + \frac{7}{4} < \frac{5}{3}n + \frac{1}{4}$ or $-n - \frac{11}{4} \leq -2 + \frac{1}{2}n$

95) $\frac{11}{4}x + \frac{7}{3} \leq \frac{1}{3}x - \frac{10}{3}$ or $-4 + \frac{9}{4}x \geq 1 - \frac{7}{4}x$

96) $-\frac{7}{3}r - \frac{4}{3} > 2r - \frac{3}{2}$ or $-\frac{11}{4}r - \frac{5}{3} < -r + \frac{2}{3}$

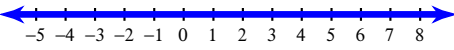
97) $-\frac{5}{3}a - \frac{3}{2} > 2 - \frac{3}{2}a$ or $\frac{4}{3}a + \frac{2}{3} \geq -a - \frac{5}{2}$

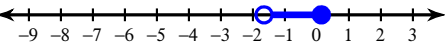
98) $\frac{4}{3}x - \frac{7}{3} > 1 - \frac{1}{2}x$ or $-\frac{2}{3}x + \frac{1}{2} > -2x + \frac{8}{3}$

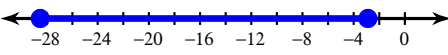
99) $\frac{2}{3}b + \frac{5}{3} < \frac{1}{3}b + \frac{3}{4}$ or $\frac{4}{3}b - \frac{1}{3} > \frac{1}{2}b - \frac{7}{3}$

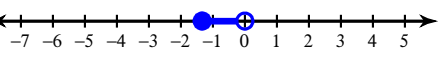
100) $\frac{1}{4}k - \frac{10}{3} > \frac{5}{2}k + \frac{1}{2}$ or $-\frac{9}{2}k + \frac{5}{2} < 2 + \frac{4}{3}k$

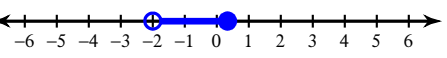
Answers to Solving linear inequalities

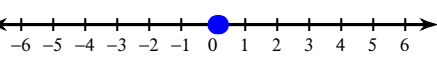
1) { All real numbers. } : 

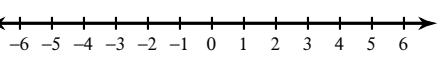
2) $-\frac{33}{20} < x \leq \frac{1}{7}$: 

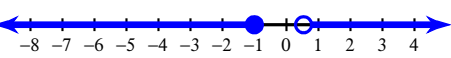
3) $-\frac{57}{2} \leq v \leq -\frac{29}{10}$: 

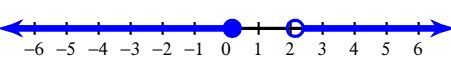
4) $-\frac{4}{3} \leq v < 0$: 

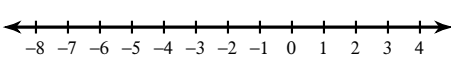
5) $-2 < b \leq \frac{1}{3}$: 

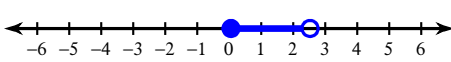
6) $\frac{3}{25} \leq x \leq \frac{4}{21}$: 

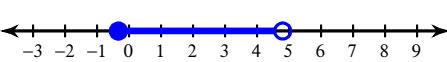
7) No solution. : 

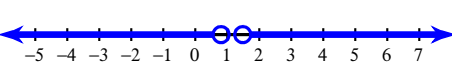
8) $a > \frac{7}{13}$ or $a \leq -1$: 

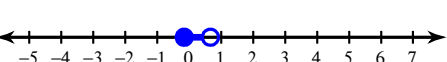
9) $x \leq \frac{3}{17}$ or $x > \frac{15}{7}$: 

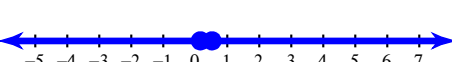
10) No solution. : 

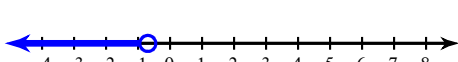
11) $\frac{1}{18} \leq x < \frac{48}{19}$: 

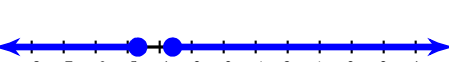
12) $-\frac{1}{3} \leq p < \frac{24}{5}$: 

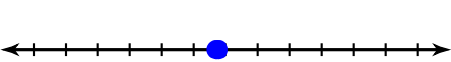
13) $b > \frac{58}{39}$ or $b < \frac{17}{21}$: 


14) $-\frac{2}{13} \leq a < \frac{2}{3}$: 


15) $a \geq \frac{10}{19}$ or $a \leq \frac{10}{61}$: 

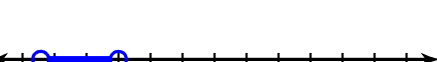
16) $x < -\frac{9}{13}$: 


17) $x \geq -\frac{18}{5}$ or $x \leq -\frac{75}{16}$: 

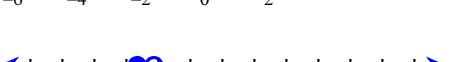
18) $-\frac{17}{13} \leq k \leq -\frac{16}{13}$: 

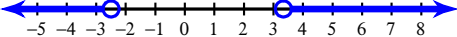
19) $\frac{7}{12} < r \leq 44$: 

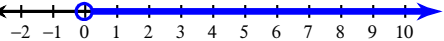
20) $-\frac{5}{3} \leq x \leq \frac{17}{46}$: 

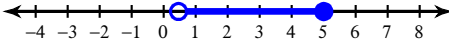
21) $-\frac{3}{7} < x < 2$: 

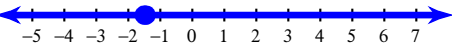
22) $m < -\frac{9}{2}$: 

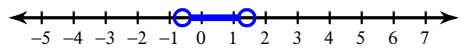
23) $m \leq -\frac{2}{3}$ or $m > -\frac{1}{7}$: 

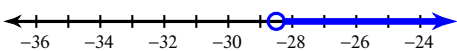
24) $x < -\frac{5}{2}$ or $x > \frac{10}{3}$: 

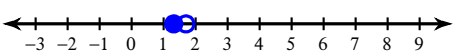
25) $n > -\frac{1}{34}$: 

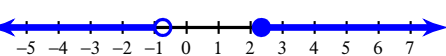
26) $\frac{6}{13} < r \leq 5$: 

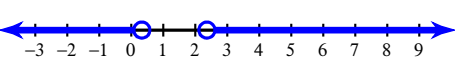
27) $n \geq -\frac{13}{9}$ or $n < -\frac{3}{2}$: 

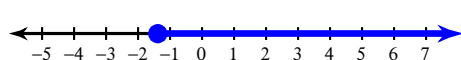
28) $-\frac{3}{5} < r < \frac{24}{17}$: 

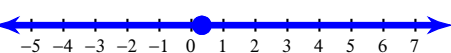
29) $k > -\frac{57}{2}$: 

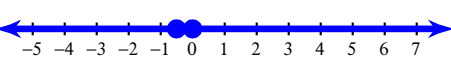
30) $\frac{25}{19} \leq k < \frac{56}{33}$: 

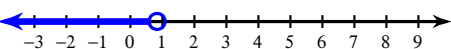
31) $n < -\frac{3}{4}$ or $n \geq \frac{7}{3}$: 

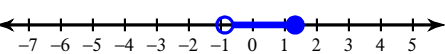
32) $n > \frac{71}{30}$ or $n < \frac{1}{3}$: 

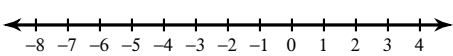
33) $p \geq -\frac{18}{13}$: 

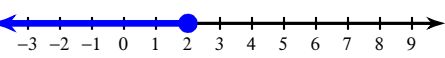
34) $v \geq \frac{1}{3}$ or $v < \frac{23}{72}$: 

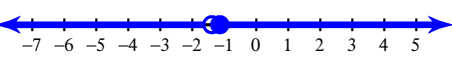
35) $k \leq -\frac{1}{2}$ or $k \geq 0$: 

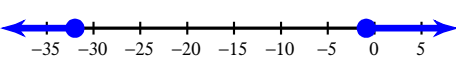
36) $x < \frac{5}{6}$: 

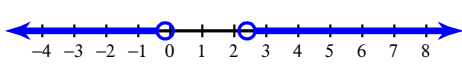
37) $-\frac{7}{8} < x \leq \frac{86}{65}$: 

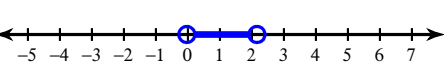
38) No solution.: 

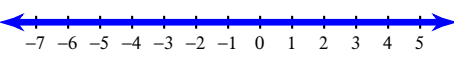
39) $x \leq 2$: 

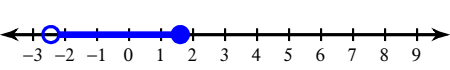
40) $a < -\frac{39}{28}$ or $a \geq -\frac{8}{7}$: 

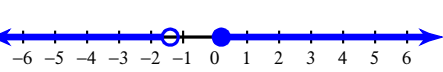
41) $x \geq -\frac{8}{9}$ or $x \leq -32$: 

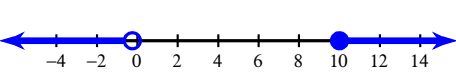
42) $x < -\frac{8}{51}$ or $x > \frac{12}{5}$: 

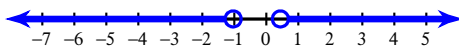
43) $-\frac{1}{32} < x < \frac{54}{25}$: 

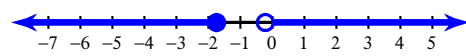
44) { All real numbers. } : 

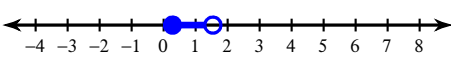
45) $-\frac{22}{9} < p \leq \frac{8}{5}$: 

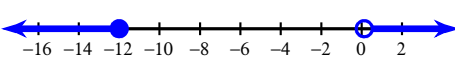
46) $k \geq \frac{9}{46}$ or $k < -\frac{7}{5}$: 

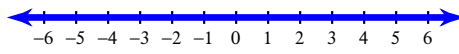
47) $n \geq 10$ or $n < -\frac{1}{4}$: 

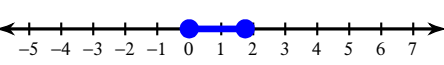
48) $x > \frac{27}{61}$ or $x < -\frac{31}{30}$: 

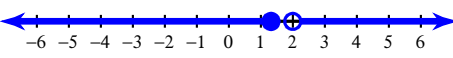
49) $m > -\frac{2}{9}$ or $m \leq -\frac{7}{4}$: 

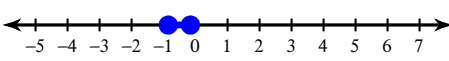
50) $\frac{5}{18} \leq v < \frac{20}{13}$: 

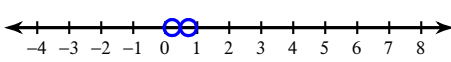
51) $n > \frac{1}{8}$ or $n \leq -12$: 

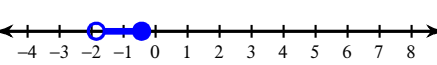
52) { All real numbers. } : 

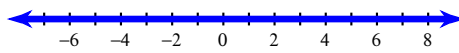
53) $0 \leq k \leq \frac{7}{4}$: 

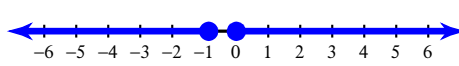
54) $n > 2$ or $n \leq \frac{37}{28}$: 

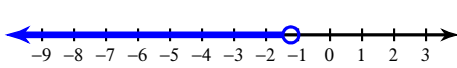
55) $-\frac{6}{7} \leq b \leq -\frac{10}{61}$: 

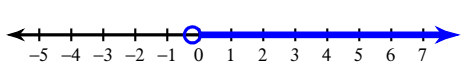
56) $\frac{3}{14} < x < \frac{8}{11}$: 

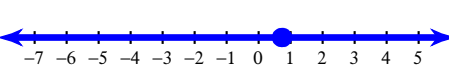
57) $-\frac{13}{7} < n \leq -\frac{15}{34}$: 

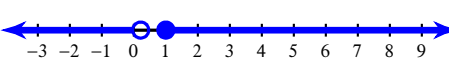
58) { All real numbers. } : 

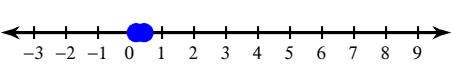
59) $p \geq 0$ or $p \leq -\frac{19}{22}$: 

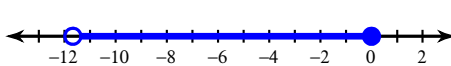
60) $x < -\frac{11}{9}$: 

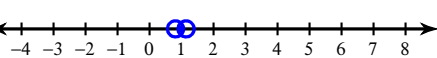
61) $n > -\frac{3}{14}$: 

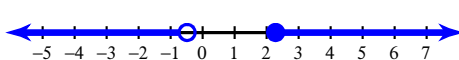
62) $x \geq \frac{3}{4}$ or $x \leq \frac{5}{7}$: 

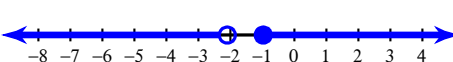
63) $r < \frac{3}{14}$ or $r \geq 1$: 

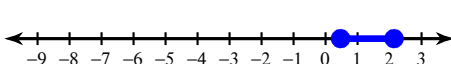
64) $\frac{7}{36} \leq r \leq \frac{24}{55}$: 

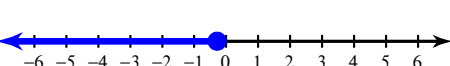
65) $-\frac{35}{3} < a \leq 0$: 

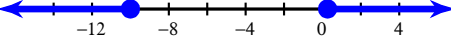
66) $\frac{13}{16} < n < \frac{8}{7}$: 

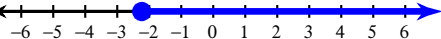
67) $n \geq \frac{41}{18}$ or $n < -\frac{25}{51}$: 

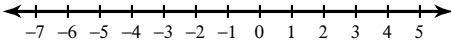
68) $m \geq -\frac{41}{42}$ or $m < -\frac{21}{10}$: 

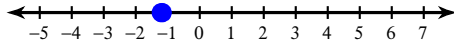
69) $\frac{8}{17} \leq b \leq \frac{15}{7}$: 

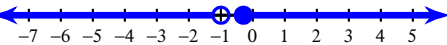
70) $n \leq -\frac{2}{7}$: 

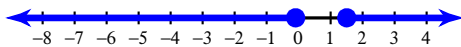
71) $r \geq \frac{4}{15}$ or $r \leq -10$: 

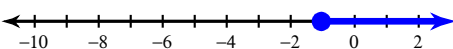
72) $n \geq -\frac{78}{35}$: 

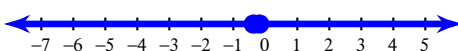
73) No solution.: 

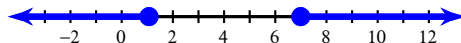
74) $-\frac{6}{5} \leq p < -\frac{34}{29}$: 

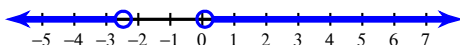
75) $p < -1$ or $p \geq -\frac{3}{10}$: 

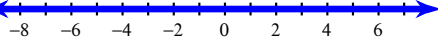
76) $b \leq -\frac{6}{61}$ or $b \geq \frac{3}{2}$: 

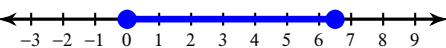
77) $r \geq -\frac{25}{24}$: 

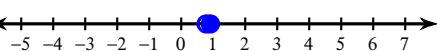
78) $p \leq -\frac{3}{8}$ or $p \geq -\frac{2}{11}$: 

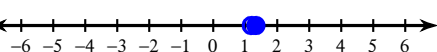
79) $n \geq 7$ or $n \leq \frac{15}{14}$: 

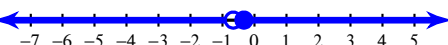
80) $x < -\frac{37}{15}$ or $x > \frac{1}{12}$: 

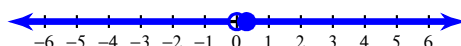
81) { All real numbers. } : 

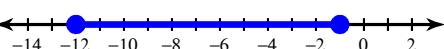
82) $0 \leq n \leq \frac{13}{2}$: 

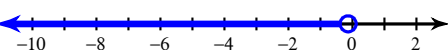
83) $\frac{7}{9} < x \leq \frac{41}{45}$: 

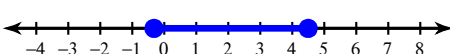
84) $\frac{25}{21} < x \leq \frac{4}{3}$: 

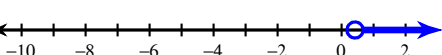
85) $v \geq -\frac{1}{3}$ or $v < -\frac{2}{3}$: 


86) $n < 0$ or $n \geq \frac{4}{13}$: 

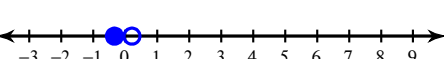
87) $-12 \leq n \leq -1$: 

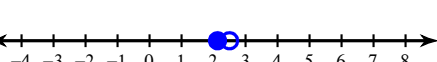
88) $m < -\frac{3}{23}$: 

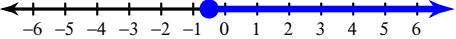
89) $-\frac{6}{19} \leq m \leq \frac{9}{2}$: 

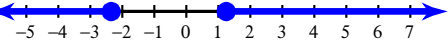
90) $m > \frac{8}{19}$: 

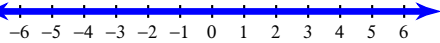
91) $x < \frac{2}{15}$ or $x \geq \frac{5}{6}$: 

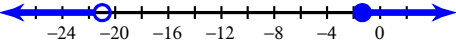
92) $-\frac{1}{3} \leq n < \frac{3}{14}$: 

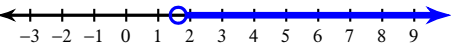
93) $\frac{17}{8} \leq n < \frac{5}{2}$: 

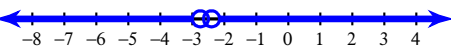
94) $n \geq -\frac{1}{2}$: 

95) $x \leq -\frac{68}{29}$ or $x \geq \frac{5}{4}$: 

96) { All real numbers. } : 

97) $a < -21$ or $a \geq -\frac{19}{14}$: 

98) $x > \frac{13}{8}$: 

99) $b < -\frac{11}{4}$ or $b > -\frac{12}{5}$: 

100) $k < -\frac{46}{27}$ or $k > \frac{3}{35}$: 