



Two-step inequalities - fractions - hard

Solve an inequality:

$$1) \frac{6}{19}k + \frac{47}{30} \geq -10\frac{427}{570}$$

$$2) -21\frac{131}{213} \leq -23 + \frac{5}{3}p$$

$$3) -25 < 1 - 13m$$

$$4) 20\frac{7}{17} - x < 9\frac{647}{663}$$

$$5) -1\frac{683}{6384} \leq 7\frac{27}{38}n - \frac{11}{14}$$

$$6) 4\frac{7}{34} + \frac{43}{31}x \geq 6\frac{18769}{22134}$$

$$7) 3\frac{43}{185} \leq \frac{2}{15}r - 1$$

$$8) -\frac{1}{4}n + \frac{1}{7} \leq -1\frac{655}{756}$$

$$9) -\frac{22}{17} + 8\frac{23}{40}v \geq 255\frac{269}{935}$$

$$10) 4\frac{17}{37} + 9\frac{5}{6}x > -605\frac{23}{111}$$

$$11) 61\frac{851}{1485} \leq 3\frac{17}{33}x + \frac{4}{5}$$

$$12) 77\frac{5}{8} \geq 2a + 1$$

$$13) 10\frac{9}{13} + 16\frac{6}{23}k \leq -20\frac{304}{1495}$$

$$14) -96\frac{6157}{6468} \geq -3\frac{19}{40}p - \frac{40}{33}$$

$$15) 4\frac{1}{5} + \frac{47}{34}b \geq 5\frac{1757}{2210}$$

$$16) 15\frac{4037}{6120} < 16\frac{39}{40} - \frac{35}{18}x$$

$$17) 13\frac{1}{16}n + 10\frac{1}{4} \leq 30\frac{3}{16}$$

$$18) 3\frac{1609}{3952} \geq 4\frac{15}{16} + \frac{28}{19}r$$

$$19) -1\frac{1}{4}m + \frac{48}{37} < -43\frac{8633}{9916}$$

$$20) 13\frac{20}{31}x + \frac{63}{34} > 182\frac{7423}{38998}$$

$$21) -43\frac{1649}{2170} \leq 1 - 1\frac{10}{31}b$$

$$22) 12\frac{7}{15}n + 6\frac{3}{14} < 30\frac{1}{70}$$

$$23) 60\frac{34}{297} > 20\frac{17}{27} + \frac{5}{3}v$$

$$24) -1\frac{499}{1209} \geq \frac{38}{31}n + \frac{35}{39}$$

$$25) \frac{1}{2}a - \frac{13}{11} \leq -\frac{773}{803}$$

$$26) 11\frac{751}{1216} \leq 9\frac{5}{8}x + \frac{15}{19}$$

$$27) -15\frac{3827}{6032} \leq 13\frac{39}{40}k + 4\frac{11}{13}$$

$$28) \frac{25}{18}x - \frac{1}{2} \geq \frac{8}{9}$$

$$29) -\frac{23}{16} + 10\frac{33}{38}x \leq 17\frac{59}{176}$$

$$30) -70\frac{7803}{11780} \leq 17\frac{11}{31}n - 23\frac{17}{20}$$

Two-step inequalities - fractions - hard

Solve an inequality:

$$1) \frac{6}{19}k + \frac{47}{30} \geq -10\frac{427}{570}$$

$$k \geq -39$$

$$2) -21\frac{131}{213} \leq -23 + \frac{5}{3}p$$

$$p \geq \frac{59}{71}$$

$$3) -25 < 1 - 13m$$

$$m < 2$$

$$4) 20\frac{7}{17} - x < 9\frac{647}{663}$$

$$x > 10\frac{17}{39}$$

$$5) -1\frac{683}{6384} \leq 7\frac{27}{38}n - \frac{11}{14}$$

$$n \geq -\frac{1}{24}$$

$$6) 4\frac{7}{34} + \frac{43}{31}x \geq 6\frac{18769}{22134}$$

$$x \geq 1\frac{19}{21}$$

$$7) 3\frac{43}{185} \leq \frac{2}{15}r - 1$$

$$r \geq 31\frac{55}{74}$$

$$8) -\frac{1}{4}n + \frac{1}{7} \leq -1\frac{655}{756}$$

$$n \geq 8\frac{1}{27}$$

$$9) -\frac{22}{17} + 8\frac{23}{40}v \geq 255\frac{269}{935}$$

$$v \geq 29\frac{71}{77}$$

$$10) 4\frac{17}{37} + 9\frac{5}{6}x > -605\frac{23}{111}$$

$$x > -62$$

$$11) 61\frac{851}{1485} \leq 3\frac{17}{33}x + \frac{4}{5}$$

$$x \geq 17\frac{13}{45}$$

$$12) 77\frac{5}{8} \geq 2a + 1$$

$$a \leq 38\frac{5}{16}$$

$$13) 10\frac{9}{13} + 16\frac{6}{23}k \leq -20\frac{304}{1495}$$

$$k \leq -1\frac{9}{10}$$

$$14) -96\frac{6157}{6468} \geq -3\frac{19}{40}p - \frac{40}{33}$$

$$p \geq 27\frac{27}{49}$$

$$15) 4\frac{1}{5} + \frac{47}{34}b \geq 5\frac{1757}{2210}$$

$$b \geq 1\frac{2}{13}$$

$$16) 15\frac{4037}{6120} < 16\frac{39}{40} - \frac{35}{18}x$$

$$x < \frac{23}{34}$$

$$17) 13\frac{1}{16}n + 10\frac{1}{4} \leq 30\frac{3}{16}$$

$$n \leq 1\frac{10}{19}$$

$$18) 3\frac{1609}{3952} \geq 4\frac{15}{16} + \frac{28}{19}r$$

$$r \leq -1\frac{1}{26}$$

$$19) -1\frac{1}{4}m + \frac{48}{37} < -43\frac{8633}{9916}$$

$$m > 36\frac{9}{67}$$

$$20) 13\frac{20}{31}x + \frac{63}{34} > 182\frac{7423}{38998}$$

$$x > 13\frac{8}{37}$$

$$21) -43\frac{1649}{2170} \leq 1 - 1\frac{10}{31}b$$

$$b \leq 33\frac{59}{70}$$

$$22) 12\frac{7}{15}n + 6\frac{3}{14} < 30\frac{1}{70}$$

$$n < 1\frac{10}{11}$$

$$23) 60\frac{34}{297} > 20\frac{17}{27} + \frac{5}{3}v$$

$$v < 23\frac{38}{55}$$

$$24) -1\frac{499}{1209} \geq \frac{38}{31}n + \frac{35}{39}$$

$$n \leq -1\frac{23}{26}$$

$$25) \frac{1}{2}a - \frac{13}{11} \leq -\frac{773}{803}$$

$$a \leq \frac{32}{73}$$

$$26) 11\frac{751}{1216} \leq 9\frac{5}{8}x + \frac{15}{19}$$

$$x \geq 1\frac{1}{8}$$

$$27) -15\frac{3827}{6032} \leq 13\frac{39}{40}k + 4\frac{11}{13}$$

$$k \geq -1\frac{27}{58}$$

$$28) \frac{25}{18}x - \frac{1}{2} \geq \frac{8}{9}$$

$$x \geq 1$$

$$29) -\frac{23}{16} + 10\frac{33}{38}x \leq 17\frac{59}{176}$$

$$x \leq 1\frac{8}{11}$$

$$30) -70\frac{7803}{11780} \leq 17\frac{11}{31}n - 23\frac{17}{20}$$

$$n \geq -2\frac{53}{76}$$