PRACTICE QUESTIONS

Solve the following inequalities:

a) $\frac{x+2}{4} - \frac{x+1}{2} > 5$

b) $\frac{2x+1}{3} - \frac{x-1}{2} > 2$

c) $\frac{4x-1}{5} + \frac{3x+1}{2} > \frac{x}{10}$

d) $\frac{x+3}{7} - \frac{x-1}{2} > \frac{5x-1}{14}$

e) $\frac{2x+1}{3} + \frac{2-5x}{6} > \frac{x+1}{8}$

f) $\frac{1-2x}{2} - \frac{5-x}{3} > \frac{2-x}{6}$

g) $\frac{x+7}{3} + \frac{3-5x}{6} < \frac{2x+1}{2}$

h) $\frac{3x+2}{5} - \frac{3-x}{2} < \frac{3x}{5}$

i) $\frac{5x+1}{3} - \frac{2-4x}{5} \geqslant \frac{1-x}{5}$

j) $\frac{x+1}{2} + \frac{x-5}{6} \leqslant \frac{2x}{3}$

k) $\frac{1-5x}{5} + \frac{x+1}{2} > \frac{6-x}{3}$

l) $\frac{2x+3}{6} - \frac{5x-6}{4} > \frac{1-3x}{2}$

m) $\frac{x+3}{3} + \frac{3-4x}{6} > \frac{2x+7}{8}$

n) $\frac{7-2x}{5} - \frac{5-3x}{10} > \frac{2-3x}{2}$

o) $\frac{x+1}{3} + 3 - x > \frac{2x+9}{5}$

p) $\frac{6x+2}{3} - 3 > \frac{3x+1}{5} - x$