PRACTICE QUESTIONS

Solve the following inequalities:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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