

Equations with Fractions

Solve each of the following equations on a separate sheet of paper. Work neatly and show all of your steps.

a) $\frac{5}{7}m = -50$

b) $\frac{1}{6}x + 9 = 12$

c) $x - \frac{2}{3} = \frac{5}{6}$

d) $11 - \frac{4x}{5} = 19$

e) $\frac{2x+7}{4} - \frac{x}{3} = \frac{-1}{3}$

f) $\frac{x}{5} - \frac{x}{6} = 2$

g) $\frac{1}{2}x + \frac{3}{4}x = \frac{1}{3}x + \frac{55}{12}$

h) $\frac{-11x}{7} + \frac{6x}{5} = 39$

i) $\frac{-5x}{21} + \frac{-3x}{7} = 7$

j) $\frac{3}{2}x + \frac{7}{3}x = 46$

k) $\frac{11x}{8} - \frac{4x}{5} = \frac{9}{20}$

l) $\frac{3x}{8} - \frac{23}{7} = \frac{-6x}{7}$

m) $\frac{x-4}{6} - \frac{x-1}{3} = \frac{1}{2}$

n) $\frac{x-3}{5} + 2 = \frac{x+4}{6}$

o) $\frac{9x-4}{5} + \frac{x-3}{3} = \frac{2x+1}{15}$

p) $\frac{x+5}{4} - \frac{3x+7}{16} = \frac{5x-3}{12}$

ANSWERS:

a) -70 b) 18 c) $\frac{3}{2}$ d) -10 e) $\frac{-25}{2}$ f) 60 g) 5 h) -105

i) $\frac{-21}{2}$ j) 12 k) $\frac{18}{23}$ l) $\frac{8}{3}$ m) -5 n) -22 o) $\frac{14}{15}$ p) 3