Equations with Fractions

1 Solve the following equations

a) $\frac{3x}{3} = 8$ **b)** $\frac{5m}{2} = 15$ **c)** $\frac{2x}{5} = 8$

d) $\frac{5x}{3} = 5$ **e)** $\frac{2x}{5} = 4$ **f)** $\frac{3a}{4} = 6$

g) $\frac{x}{3} - 2 = 5$ **h)** $\frac{x}{6} + 5 = 9$ **i)** $\frac{a}{4} - 3 = 12$

j) $\frac{2x}{7} + 5 = 9$ **k)** $\frac{2x}{3} + 4 = 12$ **l)** $\frac{5x}{4} - 5 = 10$

2 Solve the following equations

a) $\frac{x+2}{3} = 6$ **b)** $\frac{a-6}{5} = 4$ **c)** $\frac{x+6}{8} = 3$

d) $\frac{2x+8}{5} = 6$ **e)** $\frac{x-4}{3} = 2$ **f)** $\frac{2a+1}{3} = 11$

g) $\frac{3x-3}{2} = 6$ **h)** $\frac{9x+3}{3} = 10$ **i)** $\frac{5a+2}{4} = 8$

j) $\frac{2a+1}{4} = \frac{3}{2}$ **k)** $\frac{3x+2}{5} = \frac{3}{4}$ **l)** $\frac{3x+2}{10} = \frac{4}{5}$

ANSWERS

Question 1

a) x = 8 **b) m = 6** **c) x = 20**

d) x = 3 **e) x = 10** **f) a = 8**

g) x = 21 **h) x = 24** **i) a = 60**

j) x = 14 **k) x = 12** **l) x = 12**

Question 2

a) x = 16 **b) a = 26** **c) x = 18**

d) x = 11 **e) x = 10** **f) a = 16**

g) x = 15 **h) x = 3** **i) a = 6**

j) a = 5/2 **k) x = 7/12** **l) x = 2**