CLASS 8

LINEAR EQUATION IN ONE VARIABLE

SOLUTION OF LINEAR EQUATION

EXERCISE

Q.1 Solve the following equations and check your results.

- (i) 3x = 2x + 18(ii) 5x - 3 = 3t - 5(iii) 5x + 9 = 5 + 3x(iv) 4z + 3 = 6 + 2z(v) 2x - 1 = 14 - x(vi) 8x + 4 = 3(x - 1) + 7(vii) $x = \frac{4}{5}(x + 10)$ (viii) $\frac{2x}{3} + 1 = \frac{7x}{15} + 3$ (ix) $2y + \frac{5}{3} = \frac{26}{3} - y$ (x) $3m = 5m - \frac{8}{5}$
- **Q.2** Solve the following equations:

(a) $3x + \frac{1}{2} = \frac{3}{8} + \frac{x}{4}$ (b) $2x + 3(x-1) = \frac{7}{2}$

ANSWER KEY

- 1. (i) x = 18 (ii) t = -1
 - (iii) x = -2 (iv) $z = \frac{3}{2}$
 - (v) x = 5 (vi) x = 0
 - (vii) x = 40 (viii) x = 10
 - (ix) $y = \frac{7}{3}$ (x) $m = \frac{4}{5}$
- 2. (a) $x = -\frac{1}{22}$ (b) $x = \frac{13}{10}$