



EXERCISE 4.1

1. Complete the last column of the table.

S. No.	Equation	Value	Say, whether the value is Satisfied.
(i)	$x + 3 = 0$	$x = 3$	
(ii)	$x + 3 = 0$	$x = 0$	
(iii)	$x + 3 = 0$	$x = -3$	
(iv)	$x - 7 = 1$	$x = 7$	
(v)	$x - 7 = 1$	$x = 8$	
(vi)	$5x = 25$	$x = 0$	
(vii)	$5x = 25$	$x = 5$	
(viii)	$5x = 25$	$x = -5$	
(ix)	$\frac{m}{3} = 2$	$m = -6$	
(x)	$\frac{m}{3} = 2$	$m = 0$	
(xi)	$\frac{m}{3} = 2$	$m = 6$	

2. Check whether the value given in the brackets is a solution of the equation or not:
- (a) $n + 5 = 19$ ($n = 1$) (b) $7n + 5 = 19$ ($n = -2$) (c) $3n - 2 = 10$ ($n = 4$)
(d) $4p - 3 = 13$ ($p = 1$) (e) $4p - 3 = 13$ ($p = -4$) (f) $2q + 3 = 12$ ($q = 3$)
3. Solve the following equations by trial and error method:
- (i) $5p + 2 = 17$ (ii) $3m - 14 = 4$
4. Write equations for the following statements:
- (i) The sum of numbers x and 4 is 9. (ii) 2 subtracted from x is 7.
(iii) Ten times a is 70. (iv) The number b multiplied by 3 gives 15.
(v) Three-fourth of t is 15. (vi) Seven times x minus 2 gives 10.
(vii) One-fourth of a number x minus 4 gives 4.
(viii) If you take away 6 from 6 times y , you get 60.
(ix) If you add 3 to one-third of z , you get 30.
5. Write the following equations in statement forms:
- (i) $p + 4 = 15$ (ii) $m - 7 = 3$ (iii) $2m = 7$
(v) $\frac{3m}{5} = 6$ (vi) $3p + 4 = 25$ (vii) $4p - 2 = 18$