Teaching Learning Material

Class – 7th   Subject – Mathematics

Section – All   subject teacher –Bandana Kumari

From Solution To Equation

We have been solving linear equation so far. So, now here we have to know how to form an equation from given solution.

Note:- we can construct infinite number of equations from the given solution.

Let us take an example for better understanding.

Example . Construct three equations starting with x=3.

Solution:- first equation:

   Start with   x=3

   Multiply both sides by 2,   2x=6 (this is also an equation)

   Add 3 to both sides,   2x+3=9 Ans.

 :- Second equation:

   Start with   x=3

   Multiply both sides by -4, -4x=-12 Ans.

 :- Third equation:

   Start with   x=3

   Divide both sides by 6, $\dfrac{x}{6} = \dfrac{3}{6}$

   Subtract 3 from both sides, $\dfrac{x}{6} - 3 = \dfrac{3}{6} - 3 = \dfrac{-15}{6}$ Ans.

PRACTICE SHEET

EXERCISE

1. Solve the following equations:

   (i) $12t - 5 = 25$

   (ii) $5q + 28 = 10$

   (iii) $\dfrac{5}{2}y = 10$

   (iv) $\dfrac{5}{2}x = \dfrac{25}{4}$

   (v) $-2x + \dfrac{1}{2} = \dfrac{7}{2}$

   (vi) $\dfrac{2b}{3} - 5 = 3$

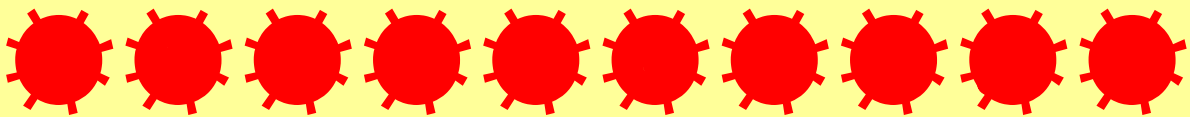2. Solve the following equations:

   (i) $4(t + 3) = 18$

   (ii) $-4(n + 3) = 5$

   (iii) $6(n - 5) = 30$

   (iv) $3(n - 5) = -21$

   (v) $3 - 2(2 - y) = 7$

   (vi) $4 + 5(p - 1) = 34$

#DON'T_LOCKDOWN_YOUR_LEARNING