DELHI PUBLIC SCHOOL
BOKARO STEEL CITY

ASSIGNMENT FOR THE SESSION 2014-2015

Class: VII **Subject : Mathematics** **Assignment No. 2**

1) Find five rational numbers between – 3 and – 2 .

2) Represent $\frac{-3}{4}$ on the number line.

3) Find the cost of $3\frac{1}{3}$ metres of cloth at Rs $40\frac{1}{2}$ per metre.

4) By what number should 3^{-3} be multiplied to obtain 4?

5) Find the value of n when: $5^{2n} \times 5^3 = 5^9$

6) Write the following numbers in standard form: a) 684502   b) 0.000987

7) Subtract (2a – 3b + 4c) from the sum of (a + 3b – 4c) & (4a – b + 9c).

8) Multiply - $\frac{8}{21}x^2y^3$ by - $\frac{7}{16}xy^2$ and verify your result for x = 3 and y = 2.

9) Simplify: (3x + 4) (2x – 3) + (5x – 4)(x + 2)

10) Solve: a) t – (2t + 5) – 5(1 – 2t) = 2(3 + 4t) – 3(t – 4)

 b) $\frac{3x-1}{5} - \frac{x}{7} = 3$

11) In an examination, a student requires 40% of the total marks to pass. If Rupa gets 185 marks and fails by 15 marks, find the total marks.

12) Two lines AB and CD intersect at a point O. If $\angle AOC = 40^0$, find the measure of each of the angles $\angle AOD$, $\angle BOD$ and $\angle BOC$.

13) Two angles of a triangle are equal and the third angle measures 70^0. Find the measure of each of the unknown angles.

14) Two sides of a triangle are 6cm and 8cm long. What can be the length of its third side?

15) A 15m long ladder is placed against a wall in such a way that the foot of the ladder is 9m away from the wall. Up to what height does the ladder reach the wall?

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