INDIAN SCHOOL AL WADI AL KABIR

DEPARTMENT OF MATHEMATICS (2014-2015)

WINTER   HOLIDAY HOME WORK

**NAME OF THE STUDENT:** …………………………………………… **CLASS: VII   SEC:**   **ROLL NO:** ……..

1. Find of a six rational numbers between $\frac{4}{5}$ and $\frac{5}{6}$.

2. The selling price of a table is Rs.5400. If the shopkeeper makes a profit of 20 %, find the cost price of the table?

3. Construct an isosceles right –angled triangle ABC with $\angle ACB$ =90^0 and AC=BC=7cm.

4. Find the simple interest on Rs.4500 for 3years at 6% per annum.   Also find the amount?

5. Determine whether the triangle whose length of sides are 5cm, 12cm, and 13cm is a right –angled triangle.

6.
    In the given figure AB=AC and D is the mid-point of the side BC.Is Δ ABD ≅ Δ ACD (Show with steps)
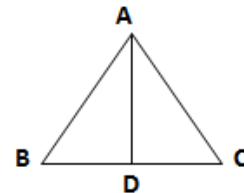
7. Represent $-\frac{-4}{5}$, $\frac{2}{5}$ and 1 on a number line.

8. Construct an equilateral triangle of side 6.5cm.

9. ABC is an isosceles triangle with AB=AC and AD is one of its altitude.
    a)Is ΔADB≅ ΔADC   b) Is ∠B=∠C
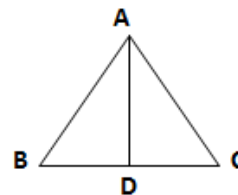
10. Out of 25students, 16 are absent .What percent of the students were present?

11. Find
    a) (-14) $\div \frac{2}{3}$ b)$\frac{5}{63} - (\frac{-6}{21})$

12. A tree is broken at a height of 8m from the ground and it top touches the ground at a distance of 6m from the base of the tree. Find the original height of the tree.