WINTER HOLIDAY HOME ASSIGNMENT (CLASS VII) 2017-2018

Solve all the given Questions in your Class Work Copy only.

1. A number is increased by 10 % and then the increased number is decreased by 10% . Find the net increase or decrease per cent.
2. The population of a town increases 8% annually. If its present population is 142560 what was it a year ago?
3. Gunpowder contains 75% Nitre and 10 % of Sulphur, and the rest of it is Charcoal. Find the amount of Charcoal in 8Kg of gunpowder.
4. A watch when sold at a profit of 6% yields Rs 870 more than when it is sold at a Loss of 6%.Find the cost price of the watch.
5. A sum of money at Simple Interest doubles itself in 8 years 4 months. In how much time will it treble itself?
6. One side of a triangle is produced and the exterior angle so formed is 120^0.If the interior opposite angles be in the ratio 3:5, find the measure of each angle of the triangle.
7. Two poles 9 m and 14 m stand upright on a plane ground .If the distance between their feet is 12 m ,find the distance between their tops.
8. A man goes 24 m due East and then 10 m due North. How far is he away from his initial position?
9. If two triangles have their corresponding angles equal, are they always congruent? If not, draw two triangles which are not congruent but which have their corresponding angles equal?
10. Are two triangles congruent if two sides and an angle of one triangle are respectively equal to two sides and an angle of the other? If not then under what conditions will they be congruent ?
11. The base of an Isosceles triangle is 12 cm and its perimeter is 32 cm .Find its area.
12. The diameter of a wheel of a car is 70cm. How many revolutions will it make to travel 99 Km ?
13. The inner circumference of a track is 220 m and the width of the track is 7m. Calculate the cost of putting up a fence along the outer circle of the track at the rate of Rs 50 per meter.
14. DEFINE :a)Pythagoras Theorem   b)Converse of Pythagoras Theorem
    c)Angle Sum Property   d)Triangle Inequality
15. DEFINE :
    a) Centroid   c) Circumcenter
    b) Incenter   d) Orthocenter