**DR.VIRENDRA SWARUP EDUCATION CENTRE, PANKI, KANPUR**

**REVISION SHEET-6**

**CLASS-VII (MATHEMATICS)**

1. A room 5m long and 4m wide is surrounded by a verandah. If the verandah occupies an area of 22m2, find the width of verandah.
2. A rectangular park is 45m long and 30m wide. A path 2.5m wide is constructed outside the park. Find the area of the path and the cost of constructing it at Rs. 125 per m2.
3. A room 9.5m long and 6m wide is surrounded by a 1.25m wide verandah. Calculate the cost of cementing the floor of verandah at Rs. 80 per m2.
4. A 15m long ladder is placed against a wall to reach a window 12m high. Find the distance of the foot of the ladder from the wall.
5. Two poles of heights 9m and 14m stand upright on a plane ground. If the distance between their feet is 12m, find the distance between their tops.
6. In a triangle ABC, if 2$∠A $= 3$∠B$ = 6 $∠C$, calculate angles A, B and C.
7. One of the angles of a triangle is 100˚and the other two angles are equal. Find each of the equal angles.
8. An exterior angle of a triangle measures 110˚and its interior opposite angles are in the ratio 2:3. Find the angles of the triangle.
9. Two sides of a triangle are 5cm and 9cm long. What can be the length of its third side?
10. A tree is broken at a height of 5m from the ground and its top touches the ground at a distance of 12m from the base of the tree. Find the original height of the tree.
11. Find the length of the diagonal of a rectangle having sides 16cm and 12cm.
12. The adjacent sides of a rectangle are 3.6cm and 1.5cm. Find the length of the diagonal.
13. A 5m long ladder when set against the wall of a house reaches to a height of 4.8m. How far is the foot of the ladder from the wall?
14. Each of the two equal angles of an isosceles triangle is twice the third angle. Find the angles of the triangle.

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