INDIAN SCHOOL DARSAIT
DEPARTMENT OF MATHEMATICS

Subject : MATHEMATICS Topic : CONSTRUCTIONS Date of Worksheet : 24/10/2019
Worksheet No:11

Resource Person: Mrs.AnuLikson

Name of the Student _____ Class &Division:___X____ Roll Number : ___

S.No. **Section A-[Basic skills]**

1 . Find 80% of 4000

2. $\frac{4}{5} - \frac{7}{15} + \frac{8}{20}$

3. Simplify (x + 2)(x – 7)

4. Find 3478 x 38

5. Find 12890 ÷ 13

Sl.N0.	**Section B -[Chapter based questions]**	Marks
1.	Draw a line segment of length 8 cm and divide it in the ration 3:2. Measure the two parts	2
2.	Construct a triangle with sides 4 cm, 5 cm and 6 cm and then another triangle whose sides are $\frac{8}{5}$ of the corresponding side of the first triangle.	4
3.	Construct an isosceles triangle whose base is 6 cm and altitude 5 cm and then another triangle whose sides are $\frac{4}{3}$ times the corresponding sides of the isosceles triangle.	4
4.	Draw a triangle ABC with side BC= 7cm, AB=6cm and $\angle ABC = 45^0$. Then construct a triangle whose sides are $\frac{2}{3}$ of the corresponding sides of the triangle ABC.	4
5.	Draw a triangle ABC with side BC=6 cm $\angle B=30^0$, $\angle A=120^0$, Then construct a triangle whose sides are $\frac{4}{3}$ times the corresponding sides of ΔABC.	4
6.	Draw a right triangle in which the side(other than hypotenuse) are of length 4 cm and 3 cm. Then construct another triangle whose sides are 1 ¾ times the corresponding sides of the given triangle.	4
7.	Draw a pair of tangents to a circle of radius 4 cm which are inclined to each other at an angle of 45^0.	4
8.	Draw a linesegment of length 7.6 cm and divide it in the ratio 3 :5 internally.Measure the two parts. Write the steps of construction.	4
9.	Draw a triangle ABC with side AB=5 cm , $\angle B=60^0$ and BC =3 cm, Then construct a triangle whose sides are1.5 times the corresponding sides of ΔABC.	4
10.	Given two circles of radii 2 cm and 3 cm with their centres 7 cm apart.Draw the tangents from the centre of each circle to the other circle.	4