



INDIAN SCHOOL DARSAIT
DEPARTMENT OF MATHEMATICS



Subject : Mathematics	Topic : Constructions	Date of Worksheet : 8-1-2018
Worksheet no: 12		
Resource Person: Mrs. Anu Likson		Date : _____
Name of the Student : _____	Class & Division : IX	Roll Number : ____

	Section A (Basic Skill)	Marks
	<u>Evaluate</u>	
1.	$\frac{8}{25} \times \frac{5}{16}$	1
2.	$\frac{8}{9} \times \frac{3}{64}$	1
3.	$2\frac{4}{7} \div \frac{45}{14}$	1
4.	$7\frac{5}{6} + 4\frac{2}{5} - 6\frac{2}{15}$	1
5.	What should be added to $\left[\frac{5}{6} - \frac{7}{8}\right]$ to get $\frac{1}{2}$?	1
	<u>Section B</u> Answer the following questions:	
1.	Construct an equilateral triangle PQR, when PQ= 6cm.	2
2.	Construct an angle of 150° .	2
3.	Construct triangle ABC in which BC= 5cm, $\angle C = 60^{\circ}$ and AC – AB = 1.5cm	3
4.	Construct a right triangle whose base is 12cm and sum of its hypotenuse and other side is 18cm.	3
5.	Draw triangle ABC in which BC= 6cm, AB= 5.2cm, and AC = 4.8cm. Draw the perpendicular bisector of BC. Does it pass through A ?	3
6.	Construct a triangle XYZ in which $\angle Y = 90^{\circ}$, XY= 8cm and XY- ZY = 4cm	3



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7.	Construct a triangle XYZ in which $\angle Y = 30^{\circ}$, $\angle Z = 90^{\circ}$ and $XY + YZ + ZX = 11\text{cm}$	4
<u>Section C</u>		
1.	Construct a triangle having its perimeter 12.5cm and the ratio of the angles 3 : 4 :5.	4
2.	Construct a right triangle with perimeter 11cm and one base angle is 30°	4
3.	Construct a triangle whose base is 6cm and the sum of the other two sides is 10cm and one base angle is 30°	4