

INDIAN SCHOOL DARSAIT DEPARTMENT OF MATHEMATICS



Subject : Mathematics Worksheet No:5		Topic:Introduction to	Date of Worksheet : 22	-8-2019
Resource Person: Sunitha Rajeev			Date :	
Name of the Student : Class & Division : IX Roll Number :				
	Section A (Basic S	kill)		Marks
1.	An angle is 25° more than its complement. What is its measure?			1
2.	The measure of an angle is 3 times its supplement, then find the angles.			1
3.	Find the perimeter of a rectangle whose length and breadth are respectively 25 cm and 10cm			1
4.	If QS lies between QP and QR. Given that $\angle PQR = 80^{\circ}$ and $\angle PQS = 35^{\circ}$, determine the measure of $\angle RQS$. Section B			1
1.	Prove that every line segment has one and only one midpoint.			2
2.	C is the midpoint of AB and D is the midpoint of AC. Prove that $AD = \frac{1}{4}AB$.			3
3.	Explain by drawing the figure. If a point C lies between two points A and B such that $AC = BC$, then prove that $AC = \frac{1}{2}AB$. Explain by drawing the figure.			3
4.	In the given figure if C XX - XZ	$DX = \frac{1}{2}XY, PX = \frac{1}{2}XZ \text{ and } OX$	= PX, show that	3
	$A 1 = A \mathbf{L}$	X		



5. In the given figure , we have $\angle 1 = \angle 3$ and $\angle 2 = \angle 4$. Show that, $\angle A = \angle C$.

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P and Q are the centres of two intersecting circles. Prove that PQ = QR = PR.



Section C

- 1. Solve the equation x 15 = 25 and state Euclid's axiom used here. 2
- 2. In figure , AE = DF, E is the midpoint of AB and F is the midpoint of DC. Using an 3 Euclid's axiom, show that AB = DC.



3. In the given figure, we have $\angle ABC = \angle ACB$, $\angle 3 = \angle 4$. Show that $\angle 1 = \angle 2$.



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