



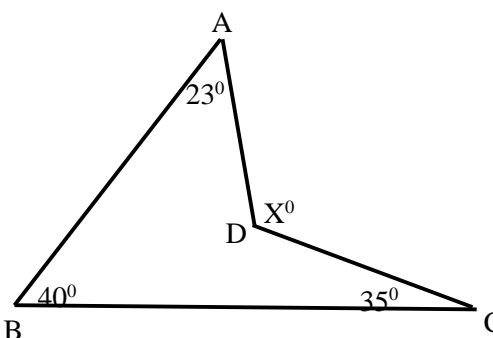
INDIAN SCHOOL DARSAIT
DEPARTMENT OF MATHEMATICS



Subject : Mathematics Topic : Lines And Angles Date of Worksheet : 24-8-2017
Worksheet No: 7

Resource Person: Mrs. Anu Likson Date : _____

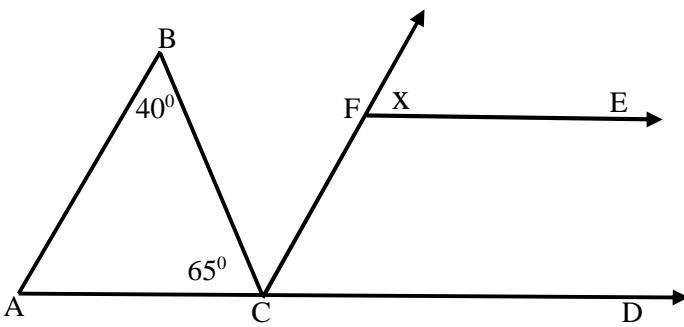
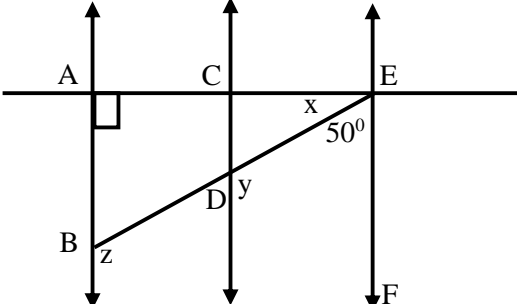
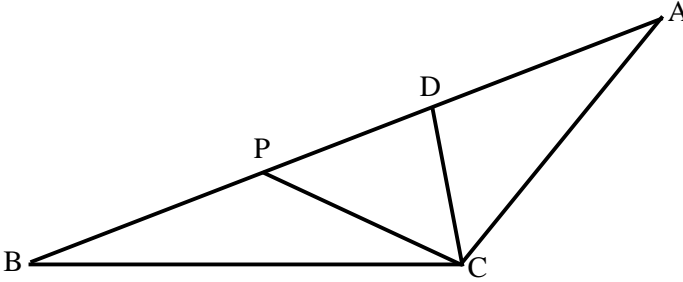
Name of the Student : _____ Class & Division : IX Roll Number : ____

Section A (Basic Skill)		Marks
<u>Evaluate</u>		
1.	$\frac{8}{2} \times \frac{5}{1}$	1
2.	$\frac{8}{9} \times \frac{3}{6}$	1
3.	$2\frac{4}{7} \div \frac{4}{1}$	1
4.	$7\frac{5}{6} + 4\frac{2}{5} - 6\frac{2}{1}$	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.	In ΔABC , if $\angle A = (2x - 5^\circ)$, $\angle B = (5x + 5^\circ)$, $\angle C = (3x + 50^\circ)$, then find the value of x, $\angle A$, $\angle B$ and $\angle C$.	2
2.	Prove that if one angle of a triangle is equal to the sum of the other two angles, then the triangle is right angled triangle.	2
3.	In the given figure, find the value of x° . 	3



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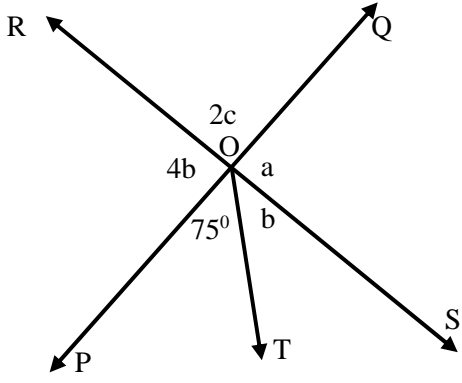
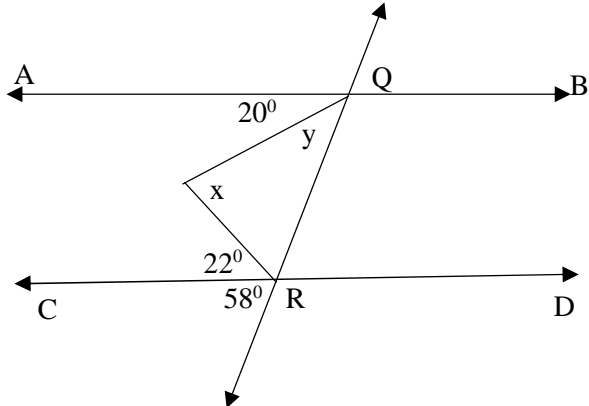
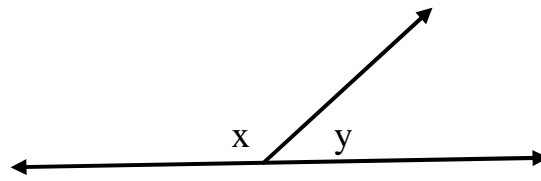


4.	<p>In the figure, if $AB \parallel CF$ and $CD \parallel FE$, then find the value of x.</p> 	3
5.	<p>In a ΔABC, $\angle A + \angle B = 116^\circ$ and $\angle B + \angle C = 126^\circ$. Find the measure of each angle of the triangle.</p>	3
6.	<p>In the given figure $AB \parallel CD \parallel EF$. EA is perpendicular to AB, $\angle BEF = 50^\circ$. Find the values of x, y and z.</p> 	3
7.	<p>In the given figure, $\angle ACD = \angle ABC$ and CP bisects $\angle BCD$. Prove that $\angle APC = \angle ACP$.</p> 	4



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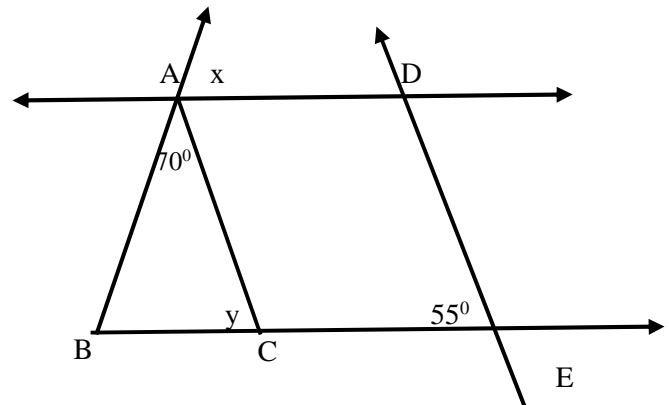
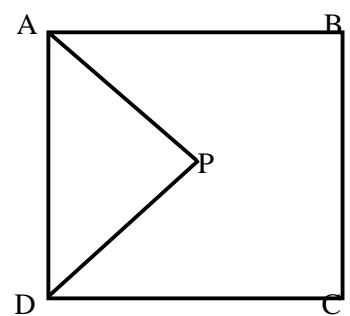
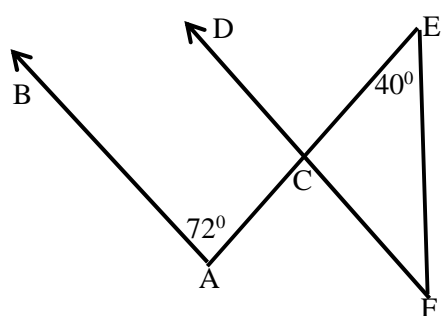
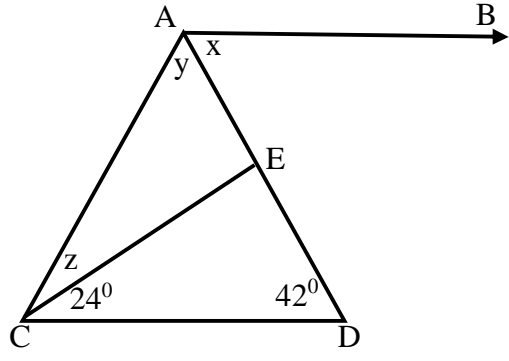


8.	<p>In the given figure, two straight lines PQ and RS intersect each other at O. If $\angle POT = 75^\circ$, find the values a, b, c.</p> 	4
9.	<p>In the given figure, find the value of x and y if $AB \parallel CD$.</p> 	4
10.	<p>Prove that the sum of three angles of a triangle is 180°. Also find the angles of a triangle if they are in the ratio 5 : 6 : 7.</p>	4
<p><u>Section C</u></p>		
1.	<p>In the given figure, x is greater than y, by $\frac{1}{6}$ of a straight angle. Find the value of x and y.</p> 	3



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2.	<p>In the given figure, $AC \parallel DE$ and $AD \parallel CE$, find x and y, when it is given that $\angle BAC = 70^\circ$ and $\angle DEC = 55^\circ$.</p> 	3
3.	<p>In the given figure, AP and DP are bisectors of $\angle A$ and $\angle D$. Prove that $2\angle APD = \angle B + \angle C$.</p> 	4
4.	<p>In the given figure, $AB \parallel CD$, $\angle BAC = 72^\circ$ and $\angle CEF = 40^\circ$. Find $\angle CFE$.</p> 	4
5.	<p>In the given figure, $AB \parallel CD$, $\angle ECD = 24^\circ$, $\angle EDC = 42^\circ$ and $AC = CE$. Find x and y.</p> 	4



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