

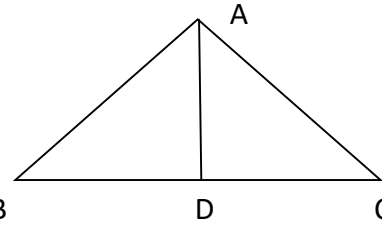
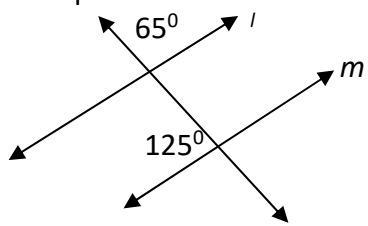
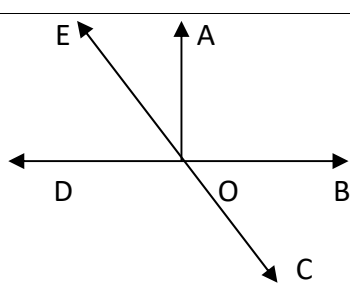


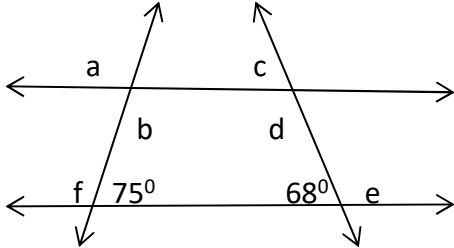
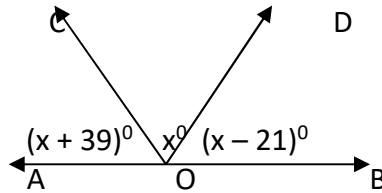
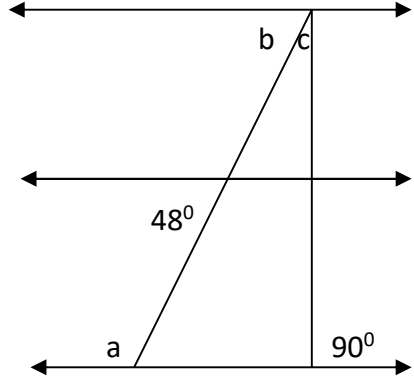
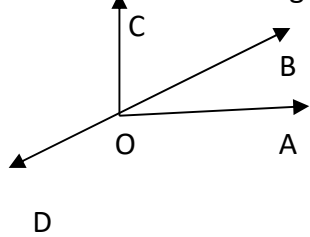
# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF MATHEMATICS



Subject : Mathematics	Topic : Lines And Angles(6)	Date of Worksheet : _____
Resource Person: Mrs Bhavya Vijelesh	Date : _____	
Name of the Student : _____	Class & Division : VII ____	Roll Number : ____

S.No.	Section A(Basic Skills)	Marks
1	(a) Identify three triangles in the figure. (b) Write the names of seven angles. (c) Write the names of six line segments. (d) Which two triangles have $\angle B$ as common? <div style="text-align: center; margin-top: 20px;">  </div>	2
2.	Draw a rough sketch of a quadrilateral KLMN. State, (a) Two pairs of opposite angles, (b) Two pairs of opposite sides, (c) Two pairs of adjacent sides, (d) Two pairs of adjacent angles.	2
3.	Draw a circle and mark (a) Its centre (b) A diameter (c) A segment (d) A point in its exterior (e) A radius (f) A sector (g) A point in its interior (h) An arc	3
<b>Section B</b>		
4	State whether $l$ is parallel to $m$ . Give reason. <div style="text-align: center; margin-top: 20px;">  </div>	2
5	Two angles are adjacent and form an angle of $150^\circ$ . The larger angle is $30^\circ$ more than twice the smaller angle. Find the angles.	2
6	Name the following pairs of angles a. Obtuse vertically opposite angles b. Adjacent complementary angles c. Equal Supplementary angles d. Adjacent angles that do not form a linear pair e. Acute vertically opposite angles f. Unequal supplementary angles <div style="text-align: center; margin-top: 20px;">  </div>	3

7	Two angles forming a linear pair are in the ratio 4 : 5. Find the angles.	2
8	<p>In the fig. <math>l \parallel m</math>. Find the value of <math>a, b, c, d, e, f</math>. Give reasons.</p> 	4
9	<p>Find <math>\angle AOC, \angle COD</math> and <math>\angle BOD</math>.</p> 	3
<b>Section C(Hot Questions)</b>		
10	<p>Find the measure of the angles</p> 	4
11	<p>In the given figure, <math>\angle AOB = x^\circ</math>. <math>\angle BOC</math> is twice of <math>\angle AOB</math>. <math>\angle COD</math> is 4 times <math>\angle AOB</math> and <math>\angle AOD</math> is 5 times <math>\angle AOB</math>. Find all the four angles.</p> 	4

12

Line  $l$  is parallel to line  $m$ . Find  $x$ .

4

