

D.A.V. PUBLIC SCHOOL, VELACHERY, CHENNAI – 42

SUBJECT: MATHEMATICS

CLASS: VII

CHAPTER NUMBER: 5

CHAPTER NAME: LINES AND ANGLES

CURIOSITY QUESTIONS

1. When two lines are given, is there any method to check if they are parallel or not?
2. What do you mean by a transversal?

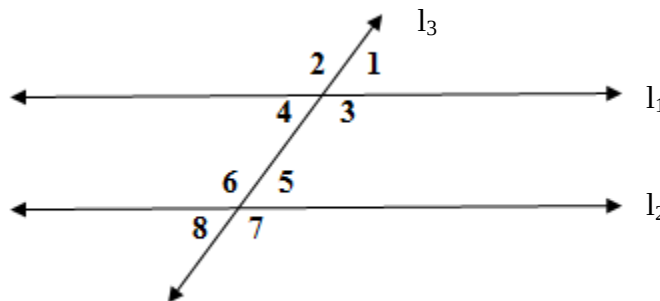
ANSWER GUIDE

1. If two parallel lines are intersected by a transversal then how many pairs of angles are equal? What are they called?

EXPERIENTIAL LEARNING ACTIVITY: HANDS ON ACTIVITY (PAPER CUTTING AND PASTING)

To establish the properties of different pairs of angles formed by a transversal with two parallel lines.

- Students will be asked to draw two lines l_1 and l_2 parallel to each other and a transversal l_3 intersecting them. They will label the angles thus obtained by numbers 1 to 8.



- Make a cut out of $\angle 1$ on a coloured paper placing it below the figure and marking impressions by using a tracing paper.
- Place the cutout of the angle on $\angle 5$ and check whether two angles cover each other. Therefore these angles make a pair of corresponding angles.
- Similarly students can identify the other pairs of corresponding angles, alternate angles by cut outs and place $\angle 4$ on $\angle 5$, $\angle 2$ on $\angle 6$, $\angle 4$ on $\angle 8$, $\angle 3$ on $\angle 7$.