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Subject: - Mathematics

Week: - 5 (1st Term)

Grade: - 8

Prepared by- Zonal Education Office
Embilipitiya

(Learning Time 2 Hours)

Angles

3.3 Adjacent Angles

- A pair of angles which have a common vertex and a common arm are located on either side of the common arm is called a pair adjacent angles.

3.4 Adjacent angles on a straight line

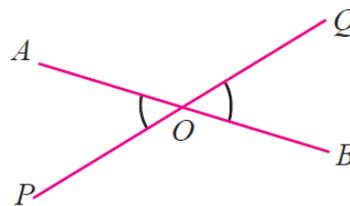
- Do the activity 1 in page no: 29
- The sum of the angles around a point on a straight line, located on one side of the straight line is 180°
- Do the exercise 3.2 by studying the page no: 27, 28, 29 and 30.

3.5 The sum of the angles around a point on a plane

- The sum of angles located around a point on a plane is 360°
- Do the exercise 3.3 by studying the page no: 32 and 33.

3.6 Vertically opposite angles

The two straight lines AB and PQ shown in the figure intersect at point O . The two angles \hat{AOP} and \hat{BOQ} which are located vertically opposite each other as shown here are called **vertically opposite angles**.



The two angles \hat{AOQ} and \hat{BOP} in the figure are also a pair of vertically opposite angles.

- Two pair of vertically opposite angles are always created by the intersection of two straight lines as the above. Each pair has a common vertex and the two angles are located vertically opposite each other across the common vertex.
- Do the exercise 3.4 by studying the page no: 34 and 35.