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Subject: - Mathematics

Week: - 5 (1<sup>st</sup> 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

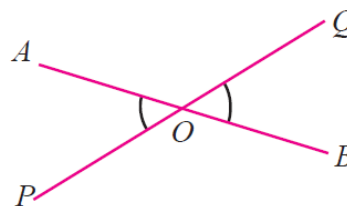
- Do the activity 1 in page no: 29
- The sum of the angles around a point on a straight line, located on one side of the straight line is  $180^\circ$
- Do the exercise 3.2 by studying the page no: 27, 28, 29 and 30.

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  $360^\circ$
- 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  $\angle AOP$  and  $\angle BOQ$  which are located vertically opposite each other as shown here are called **vertically opposite angles**.



The two angles  $\angle AOQ$  and  $\angle POB$  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.