



Provincial Education Department Sabaragamuwa Week School

Subject: Mathematics

Week - 48

Grade: 10

Translated by: N. Dematage
Kg/Dehi/ Ruwanwella Royal College

Angle of Elevation

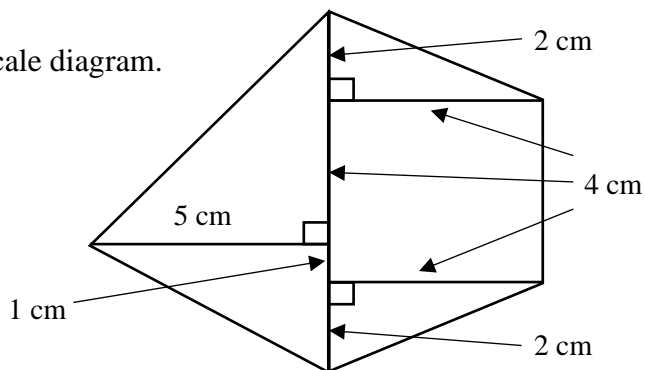
An angle of elevation is defined as the angle formed between the line of vision and the eye level (horizontal level) of an observer when the observer is looking an object above the eye level.

Angle of Depression

An angle of depression is defined as the angle formed between the line of vision and the eye level (horizontal level) of an observer when the observer is looking an object below the eye level.

- (01) A land survey plan is shown below. 1 cm in the scale of the plan represents an actual distance of 2m.

- (i) Find the area of the plan in the scale diagram.
(ii) Find the actual area of the land.



- (02) A Child standing on a point A on a horizontal ground see the highest point of a building, directly in front of him, with an angle of elevation 25° . Then, after moving 25 m in a straight line towards the building to point B, he saw the same highest point of the building with an angle of elevation 60° .

- (i) Draw the scale diagram for the above description by representing 1 cm for 5m (Ignore the height of the child)
(ii) Find the height of the building

Complete the exercises **32.1/32.2/32.3** in the textbook.