

**Pakistan Urdu School- Kingdom of Bahrain**

**Grade : 8**

**Subject: Mathematics**

**Revision Worksheet**

**Students Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Class/Section:** \_\_\_\_\_

**Unit 11- Introduction to Trigonometry**

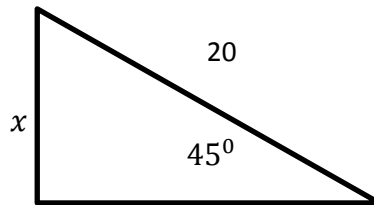
**Section A**

1. The value of  $\sin 30^\circ$  is .....
2. If  $45^\circ = \frac{a}{5}$ , then the value of a is .....
3. When you look down to see an object, an angle of ..... is formed

**Section B**

- 1.a) The length of a shadow cast by a tree is same length as that of the tree, find the angle of elevation of the sun

- b) Calculate the unknown side denoted by  $x$ ,



2. Ejas sees a plane in the sky. The plane is at a horizontal distance of 24km from Ejas and the angle of elevation is  $30^\circ$ . How high is the aircraft from the ground if Ejas is 1.5 meter tall? ( $\sqrt{3} = 1.73$ )

**Section C**

1. A bird flies from the top of a 12 m tall tree at an angle of depression of  $34^\circ$  to catch a worm on the ground.
  - i) How far does the bird actually fly?
  - ii) How far was the worm from the base of the tree?[Given  $\sin 34^\circ = 0.56$ ,  $\cos 34^\circ = 0.83$ ,  $\tan 34^\circ = 0.67$ ]