

1. Draw a line which is 4 *in* long and label it AB.
2. Construct a line perpendicular to AB passing through end A.
3. Construct a line making an angle of  $60^\circ$  with AB at point B and extend it to intersect with a line perpendicular to AB at point C.
4. Using trigonometric ratios, calculate the lengths of line AC and BC.  
What are their lengths?
  
5. Using a ruler measure the length of line AC and BC.  
What do you get? Are they equal to the results you got in step 4 above?

In this activity, students will draw a right triangle and solve it using the trigonometric ratios. Students will work in groups of at least three and each group is required to have a pencil, a ruler, a plane paper and a compass.

## Answer Keys

### Day 93:

1-3. No response

4. AC is about 7 *in*

BC is about 8 *in*

5. AC is about 7 *in*

BC is about 8 *in*

Yes