

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.

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° with AB at point B and extend it to intersect with 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?

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