

Problems to Ponder

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Mapping the Treasure

You participate in a treasure hunt where you are required to locate a treasure on a map. On the map, Points A, B, and C form a triangle, with Points A and B 11 meters apart, and Point C to the north of AB with an angle BAC of 52° and a distance from A of 7 meters.

Use a compass, ruler, and protractor to:

- i. construct triangle ABC;
- ii. construct the angle bisector of angle ABC; and
- iii. construct the perpendicular bisector of line BC.

The treasure lies at the point of intersection between these angle and perpendicular bisectors. Mark this point with T.

Solution:

This map shows all of the given landmarks.

