Name: _	
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## Worksheet 3-5: Solving Right Triangles

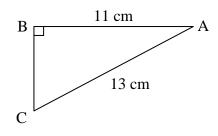
To **solve** a right triangle means to find all the unknown side lengths and unknown angles of a given right triangle.

Since each trigonometric ratio involves 3 pieces of information (**one** \_\_\_\_\_\_ **and two** \_\_\_\_\_). Two of the three pieces of information must be given to find the unknown information.

Identify the given information for the 2 cases below and solve the right triangles.

## Solving a right triangle, given two sides only

1. Solve  $\triangle$  ABC. Find side lengths to the nearest tenth of a centimetre and angles to the nearest degree.



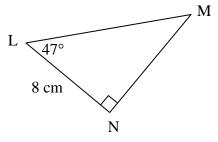
m $43.5^{\circ}$ D

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## **Practice:**

3. Solve  $\Delta$  LMN. Find side lengths to the nearest tenth of a centimetre.



4. Find  $\theta$ , to the nearest degree.

