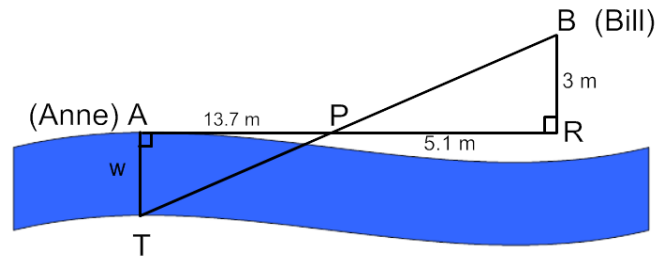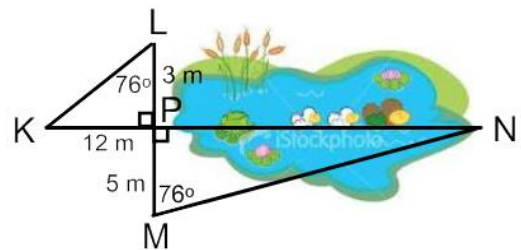1. A flagpole casts a shadow 14.5 m long at the same time that a person 1.8m tall casts a shadow 2.5 m long. Find the height of the flagpole. (Draw a diagram.)
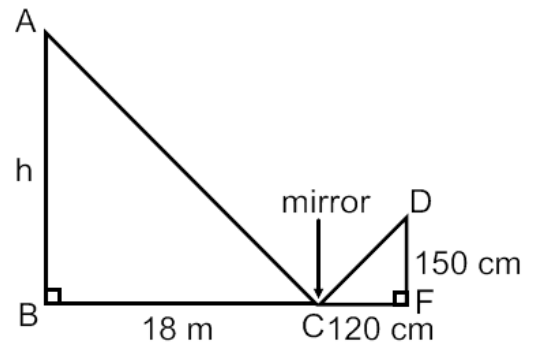
2. Two people, Anne and Bill are on the same side of a river. They took the following measurements to calculate the width of the river. How wide is the river?

3. To find the length of a pond, a surveyor took some measurements. She recorded them on this diagram. What is the length of the pond?

4.   Elizabeth's eyes are 150 cm from the floor. She places a mirror on the floor 18 m from the base of a climbing wall. She walks backward 120 cm, until she sees the top of the wall in the mirror. What is the height of the climbing wall? (Watch units!)

A
h
mirror   D
150 cm
B   18 m   C 120 cm   F

Communication: If two triangles are **similar**, explain, in your own words, what that means?

Steps to solving word problems:

Homework: pg. 33 #4 – 8