

# MISSION: DISASTER RELIEF

There is a injured hiker that the Search & Rescue must get to. The team has stopped at an ice crevasse. They need to decide if the 12m ladder they have will reach across. Marley the mathematics triangulates the following information needed to make the decision. Marley used his iPhone compass and measured an angle  $90^\circ$  at the shortest distance across. He walked 10 meters straight down from where he measured the  $90^\circ$  angle, and measured a  $52^\circ$  angle to that same shortest distance spot.



- With your calculation, is the team able to make the crossing at that point, or do they have to search for another potential crossing point. Explain your answer.