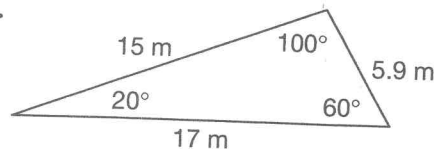


Chapter 7 Mid-Chapter Review

Answers

- 1. a) For example, I estimate that $\angle A = 40^\circ$, $\angle B = 60^\circ$, and $\angle C = 80^\circ$. I compared $\angle A$ to 45° and it looked slightly smaller, so I estimated it at 40° . I also compared $\angle B$ to 45° , and it looked bigger, so I estimated it at 60° . I compared $\angle C$ to a right angle, and since it looked a bit smaller than 90° , I estimated it to be 80° .
- b) $\angle A = 40^\circ$, $\angle B = 55^\circ$, and $\angle C = 85^\circ$, so my estimates were all fairly close.

→ 2.



- 3. Note: Sample answers are given.
- a) Since all the measured angles are 60° , Irene measured an equilateral triangle. Therefore, all the sides she measured should have been the same length. The side she measured as 6 cm is probably 5 cm instead.
- b) I don't think Irene made a mistake here because she measured two equal angles and two equal sides, plus the smallest angle she measured seems right for the corresponding smallest side that she measured.
- c) Since Irene measured all different side lengths, she should have measured all different angles. My guess is that she may have made a mistake measuring the angles.
- 4. I could redraw and label the triangles according to the angles and dimensions given and include them in a written explanation.