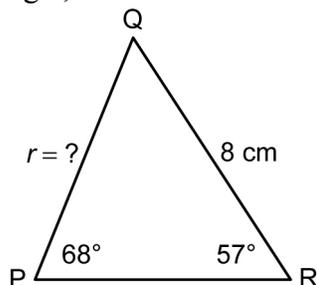


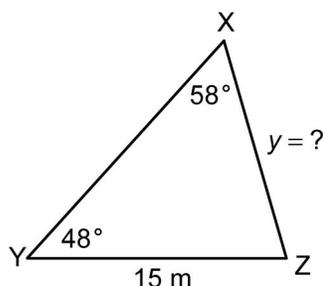
**Section 8.1 Practice Master**

1. Find the length of the indicated side in each triangle, to the nearest tenth of a unit.

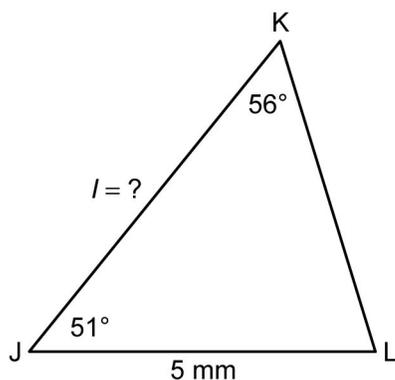
a)



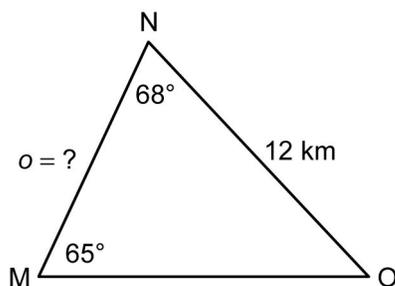
b)



c)



d)



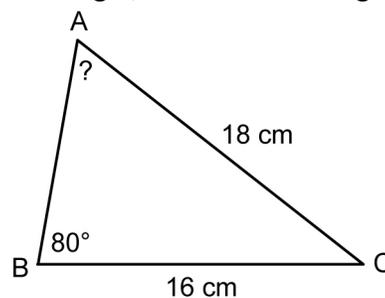
2. Draw a diagram and label the given information. Then, find the measure of the indicated side in each triangle, to the nearest tenth of a unit.

a) In acute  $\triangle ABC$ ,  $\angle A = 72^\circ$ ,  $\angle B = 68^\circ$ , and  $a = 12$  cm. Find side  $b$ .

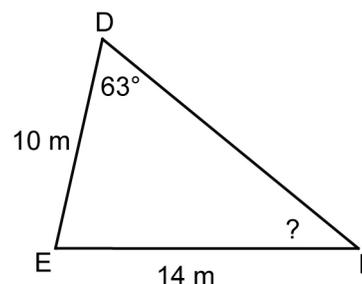
b) In acute  $\triangle DEF$ ,  $\angle D = 52^\circ$ ,  $\angle F = 71^\circ$ , and  $e = 8.0$  m. Find side  $d$ .

3. Find the measure of the indicated angle in each triangle, to the nearest degree.

a)



b)



4. Draw a diagram and label the given information. Then, find the measure of the indicated angle in each triangle, to the nearest degree.

a) In acute  $\triangle PQR$ ,  $\angle P = 64^\circ$ ,  $p = 5.7$  cm, and  $r = 4.1$  cm. Find  $\angle R$ .

b) In acute  $\triangle STU$ ,  $\angle S = 57^\circ$ ,  $s = 12$  m, and  $u = 9$  m. Find  $\angle U$ .

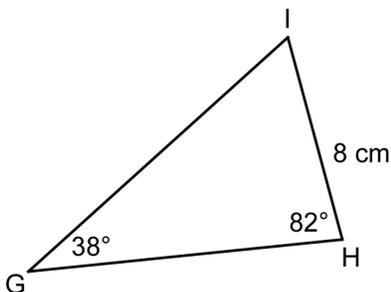
Name: \_\_\_\_\_

Date: \_\_\_\_\_

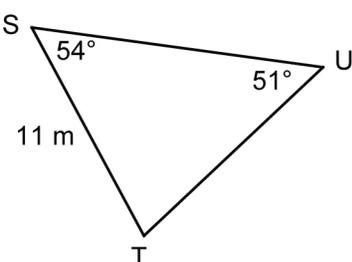
**BLM 8-4**  
(page 2)

5. Solve each triangle. Round answers to the nearest unit.

a)

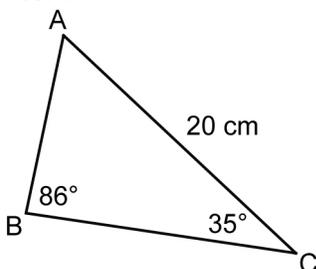


b)

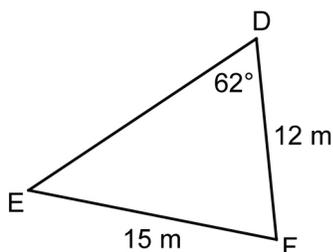


6. Solve each triangle. Round answers to the nearest unit.

a)



b)



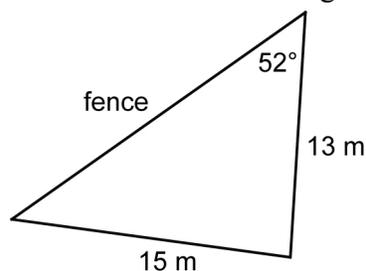
7. Draw a diagram and label the given information. Then, solve each triangle. Round answers to the nearest unit.

a) In  $\triangle DMC$ ,  $\angle D = 55^\circ$ ,  $d = 21$  cm, and  $m = 23$  cm.

b) In  $\triangle KPR$ ,  $\angle K = 63^\circ$ ,  $\angle P = 71^\circ$ , and  $r = 13$  m.

8. **Use Technology** Check your answers to question 7 using dynamic geometry software.

9. Angela is building a garden in the shape of a triangle, as shown. She would like to put a fence on one side of the garden.



a) Find the angle formed by the fence and the side that is 15 m in length. Round your answer to the nearest degree.

b) Find the length of the fence, to the nearest metre.