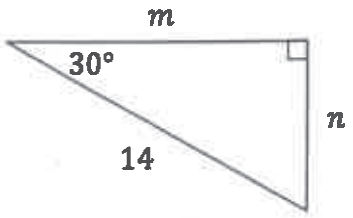
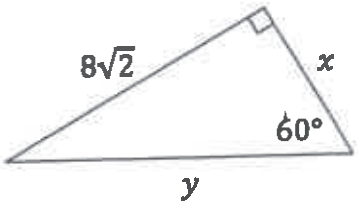
Name _____ Date _____

1) Determine the value of the missing sides for the following triangle.



2) Determine the value of the missing sides for the following triangle.



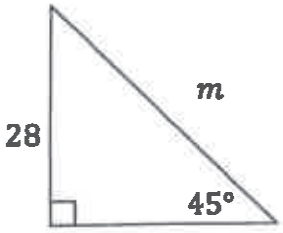
3) The length of the side opposite the 30° angle of a $30-60-90$ is 323 ft. Determine the lengths of the other two sides.

4) At the local baseball diamond, the distance from home base to second base is 100 feet.

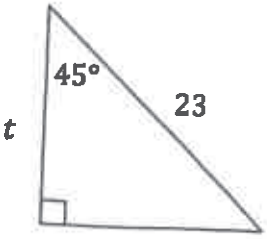
Part A: Determine the distance from home base to first base.

Part B: If Sammy hits a homerun, then what is the distance that she has to run around the bases?

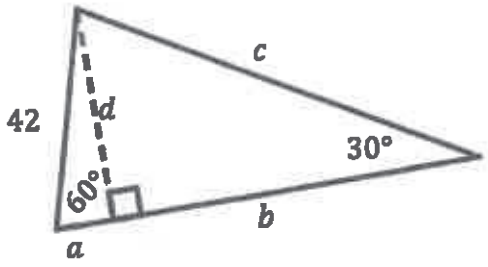
5)



6)

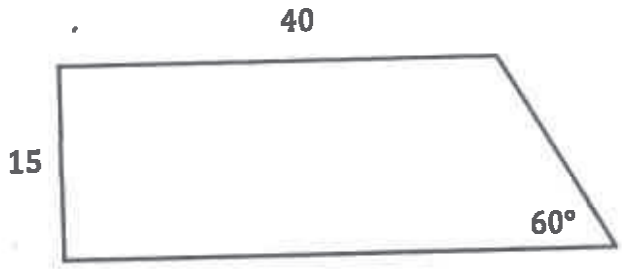


7) Determine the value of each variable in the figure below. Keep answers in simplest radical form.



8) An equilateral triangle has a height of 52 cm. Determine the length of each side to the nearest hundredth of a centimeter.

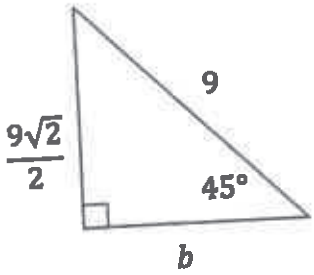
9) Consider the following figure.



Part A: Determine the perimeter of the figure above.

Part B: Determine the area of the figure above.

10)



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