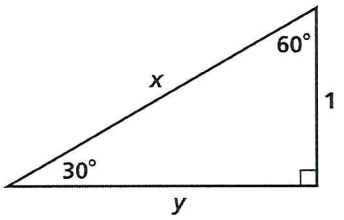
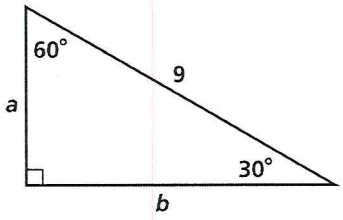
Name _____ Class _____ Date _____

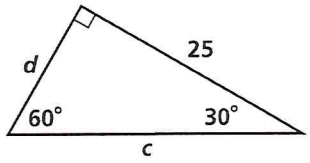
# Practice 8-2

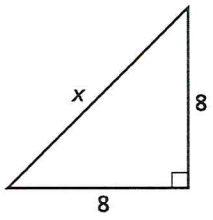
Special Right Triangles

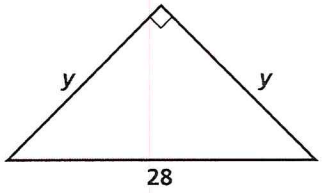
**Find the value of each variable. Leave your answers in simplest radical form.**

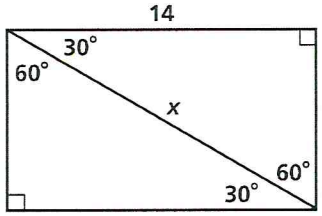
1. 

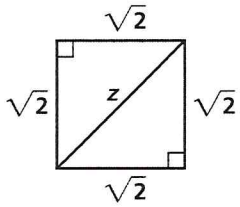

2. 

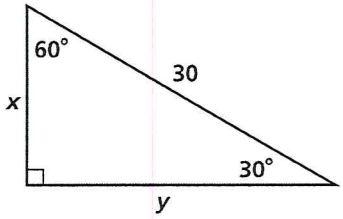

3. 

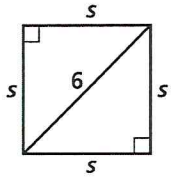

4. 


5. 


6. 


7. 


8. 


9. 

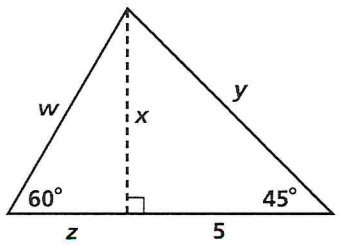

10. Find the length to the nearest centimeter of the diagonal of a square 30 cm on a side.

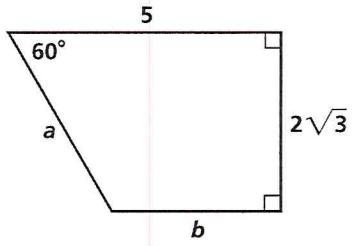
11. The hypotenuse of an isosceles right triangle is 8.4 in. Find the length of a side to the nearest tenth of an inch.

12. In a 30°-60°-90° triangle, the shorter leg is 6 ft long. Find the length to the nearest tenth of a foot of the other two sides.

13. Each side of a rhombus is 14 in. long. Two of the sides form a 60° angle. Find the area of the rhombus. Round your answer to the nearest square inch.

***Algebra*** **Find the value of each variable. Leave your answers in simplest radical form.**

14. 


15. 


16.