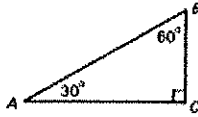


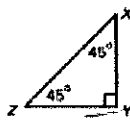
## Special Right Triangles Worksheet

Exercises 1-6 refer to the 30-60-90 triangle. Using the given information, find the indicated length.



1.  $AB=14$ ;  $BC=$
2.  $BC=7$ ;  $AB=$
3.  $BC=8$ ;  $AC=$
4.  $AB=16$ ;  $AC=$
5.  $AC=9\sqrt{3}$ ;  $BC=$
6.  $AC=4\sqrt{3}$ ;  $AB=$

Exercises 7-12 refer to the 45-45-90 triangle. Using the given information, find the indicated length.



7.  $XY=7$ ;  $XZ=$
8.  $YZ=10$ ;  $XZ=$
9.  $XZ=11\sqrt{2}$ ;  $YZ=$
10.  $XZ=10$ ;  $XY=$
11.  $YZ=7\sqrt{2}$ ;  $XZ=$
12.  $XZ=12$ ;  $YZ=$

13. The length of the hypotenuse of a 30-60-90 triangle is 20. What is the length of the shorter leg?

14. A ladder leaning against a wall makes a  $60^\circ$  angle with the ground. The base of the ladder is 3 m from the building. How high above the ground is the top of the ladder?

[return to lesson plan](#)