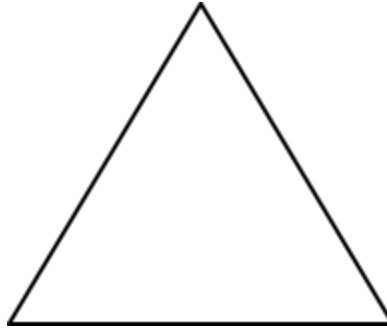


Special Right Triangles

A. Chop an equilateral triangle in half.



The triangle shown above is **equilateral** (what does this mean?).

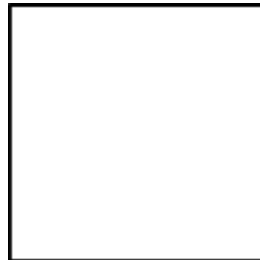
QUES 1. How big is each angle in the equilateral triangle?

INSTRUCTIONS: Chop the triangle in half by drawing a line from the top point straight down to the middle of the base. This divides the triangle into two smaller triangles. The rest of the questions refer only to the triangle on the left, which will be called “the new triangle”.

QUES 2. How big is each angle in the new triangle? Label them.

QUES 3. If the original equilateral triangle has sides of length 2, find the lengths of all sides of the new triangle. Label them.

B. Chop a square in half.



The figure shows a square.

INSTRUCTIONS: Chop the square in half by drawing a diagonal line from the upper left corner to the lower right corner. This makes two triangles. The rest of the questions refer to the triangle on the bottom.

QUES 1. How big is each angle in the triangle? Label them.

QUES 2. If the original square has sides of length 1, find the lengths of all sides of the triangle. Label them.