

Incorrect. Let x equal the length of the diagonal, which is the hypotenuse of the right triangular piece of wood. One acute angle measures 50° , and the length of the opposite side is 15 inches. Therefore, you can use the sine function to set up an equation:

$$\sin 50^\circ = \frac{15}{x}$$

Solve this equation for x , use your calculator to find a numerical value, and round off to the nearest tenth.