



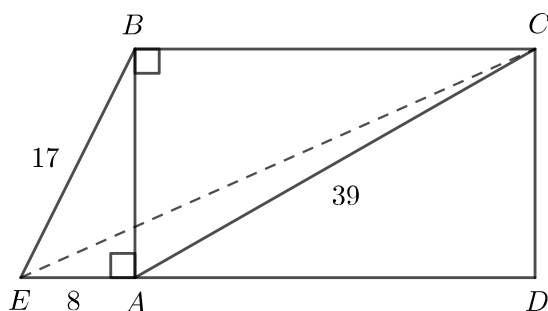
Problem of the Week

Problem C

All the Way Across

Francie has a field. It is made up of rectangle $ABCD$ and right triangle ABE , as shown below. She knows the length of AC , the diagonal of the rectangle, is 39 m. She also knows the lengths of sides EA and EB of the triangle are 8 m and 17 m, respectively. She would like to know the distance from E to C .

What is the length of EC , accurate to one decimal place?



The *Pythagorean Theorem* states that in a right triangle, the square of the length of the hypotenuse (the side opposite the right angle) is equal to the sum of the squares of the lengths of the other two sides.

