

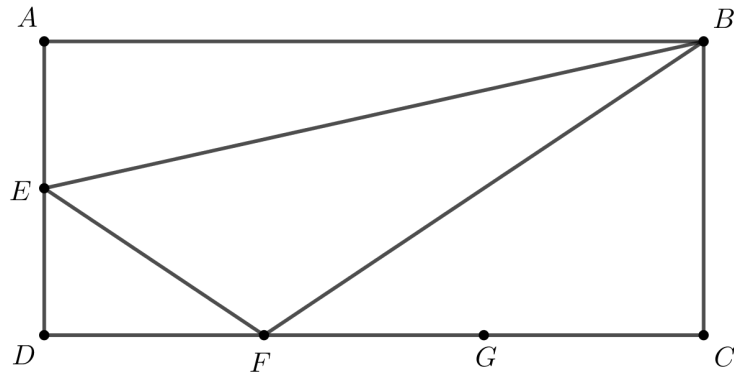


## Problem of the Week

### Problem D

#### The Whole Rectangle

In the diagram,  $ABCD$  is a rectangle. Points  $F$  and  $G$  are on  $DC$  (with  $F$  closer to  $D$ ) such that  $DF = FG = GC$ . Point  $E$  is the midpoint of  $AD$ .



If the area of  $\triangle BEF$  is  $30 \text{ cm}^2$ , determine the area of rectangle  $ABCD$ .

