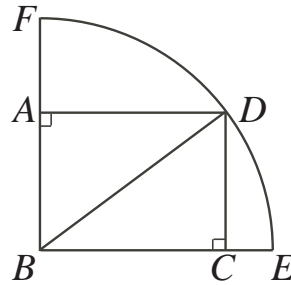




# Problem of the Week

## Grade 7 and 8

### The Missing Link



$ABCD$  is a rectangle inscribed in a quarter-circle as shown.  $A$  is on  $BF$ ,  $B$  is the centre of the quarter-circle,  $C$  is on  $BE$ , and  $D$  is on arc  $FE$ .

If  $AD = 12$  cm and  $CE = 1$  cm, determine the length of  $AF$ .

