



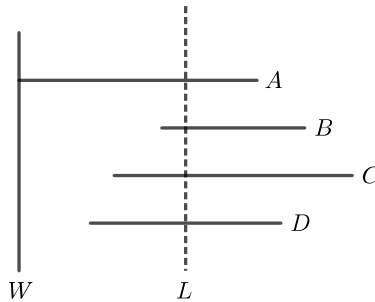
## Problem of the Week

### Problem D

### Cut Along the Dotted Line

Four pieces of lumber are placed in parallel positions, as shown below, perpendicular to the line  $W$ .

- Piece  $A$  is 5 m long and touches  $W$
- Piece  $B$  is 3 m long and its left end is 3 m from the line  $W$
- Piece  $C$  is 5 m long and its left end is 2 m from the line  $W$
- Piece  $D$  is 4 m long and its left end is 1.5 m from the line  $W$



A single cut, parallel to  $W$ , is made along the dotted line  $L$ . The total length of lumber on each side of  $L$  is the same. What is the length, in m, of the part of  $A$  to the left of the cut?

