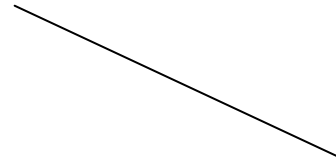


# Perpendicular bisectors

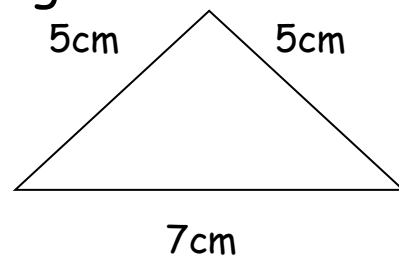
Construct the perpendicular bisectors of the following lines.



In your books, answer the following questions:

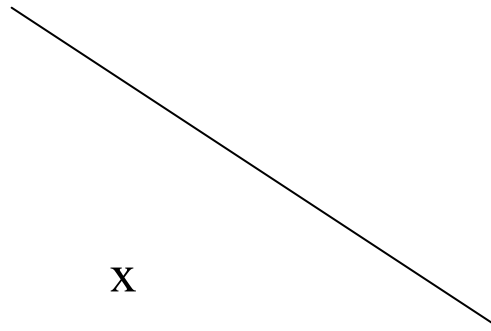
1. Draw a 9 cm line AB. Construct the perpendicular bisector of AB.

2. Draw the following SSS triangle.

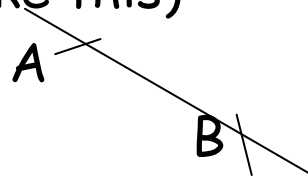


Construct the perpendicular bisector of the base. What do you notice?

# Extension



1. Put the compass point on the cross.
2. Without changing the length of your compasses, draw two arcs, cutting the mirror line either side of  $x$ . (Like this)



3. Do not adjust the compasses.  
Put the compass point at  $A$  (on your diagram).  
Draw an arc on the other side of the mirror line to  $x$ .
4. Put the compass point at  $B$  and draw an arc crossing the last arc you drew.
5. Your intersection is the reflection of  $x$ .