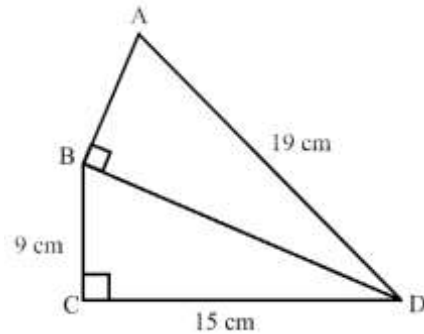
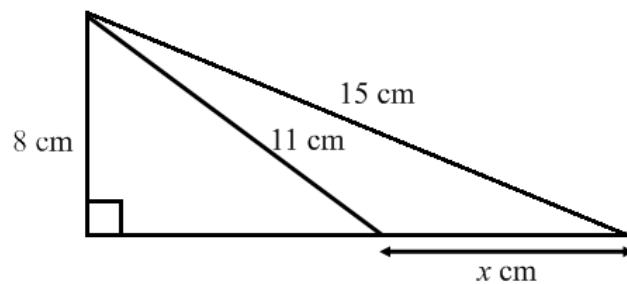


Pythagoras

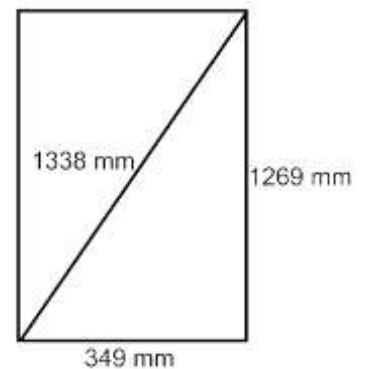
1. Calculate the length of side marked AB.
Give your answer to 2 decimal places.



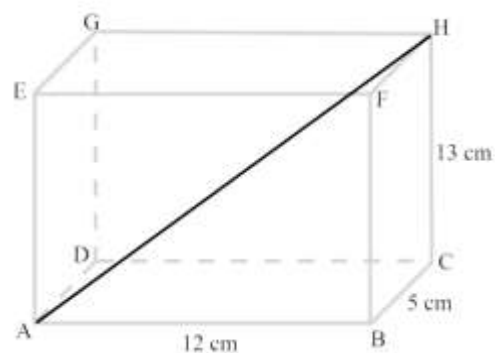
2. Calculate the length of x. Give your answer to 2 decimal places.



3. A joiner is checking a window frame to ensure it has a 90° angle. The frame appears to be rectangular with height of 1267 mm, a breadth of 349 mm and a diagonal of 1338 mm. Can the joiner allow the glazier to fit the glass?



4. In the cuboid opposite, calculate the length of line AH. Give your answer to 3 significant figures.



5. B is the point $(-2, 6)$ and C is the point $(4, 9)$. Find the distance between points B and C. Give your answer as a surd in its simplest form.