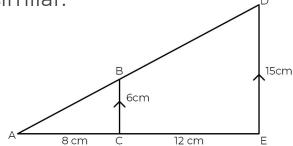
Maths



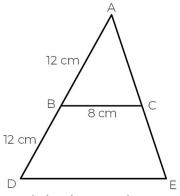
1. Explain why triangles ABC and ADE are similar.



It may help to draw the two separate triangles.

2. Triangle ABC is similar to triangle

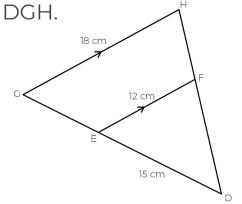
ADE.



Work out side length DE.

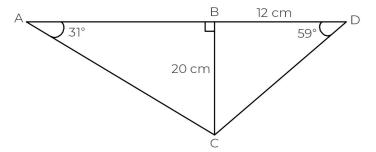


3. Triangle DEF is similar to triangle



Work out the length of side EG.

4. Triangles ABC and BCD are similar.



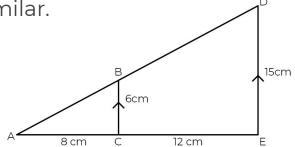
Calculate the length of side AB correct to 1 decimal place.



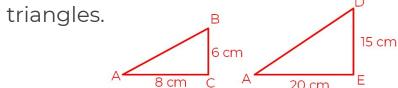
Answers



1. Explain why triangles ABC and ADE are similar.

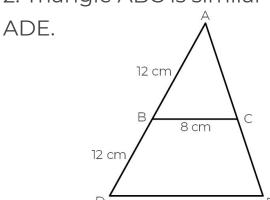


It may help to draw the two separate

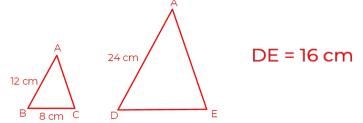


The two triangles have three pairs of equal angles and also corresponding sides that have been enlarged by a scale factor of 2.5

2. Triangle ABC is similar to triangle



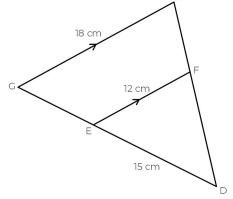
Work out side length DE.



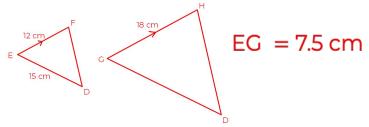


3. Triangle DEF is similar to triangle

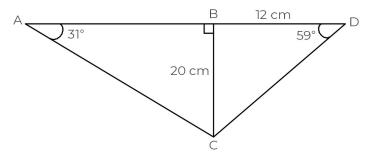
DGH.



Work out the length of side EG.



4. Triangles ABC and BCD are similar.



Calculate the length of side AB correct to 1 decimal place.

