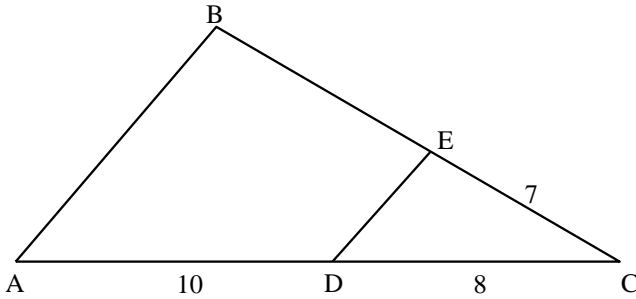
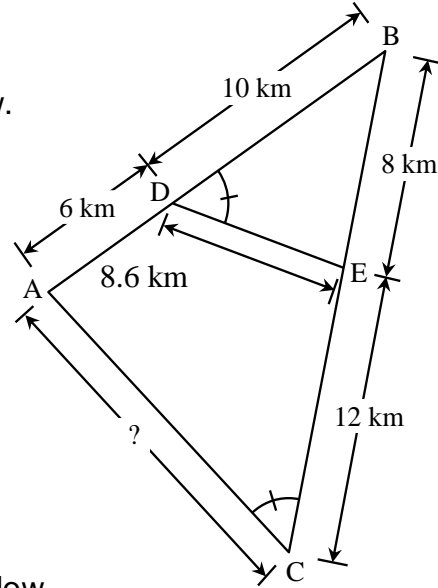


SIMILAR TRIANGLES-MISSING MEASURES WKSHT

1. In triangle ABC below, segment DE is parallel to segment AB. The measurements are given in metres. **What is the length of segment BC?**

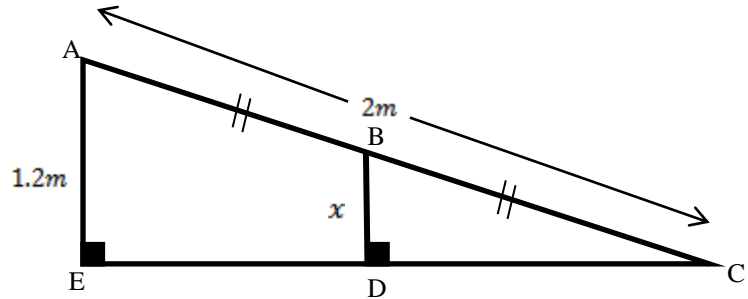


2. Determine the length of side \overline{AC} in the figure below.

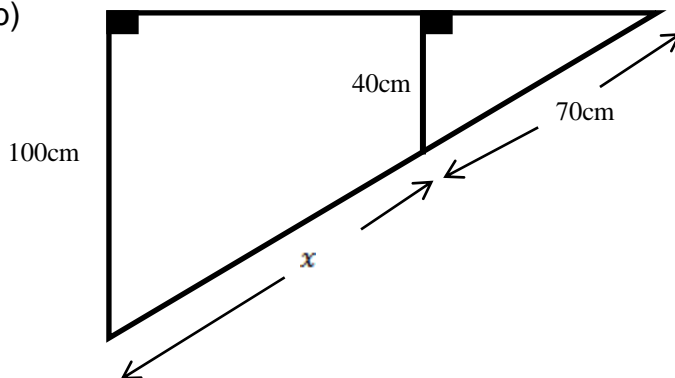


3. Determine the length of x in each of the figures below.

a) $\overline{AB} \cong \overline{BC}$



b)



SIMILAR TRIANGLES-MISSING MEASURES WKSHT

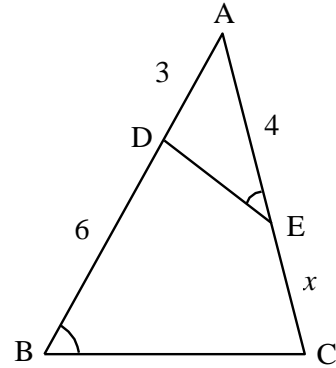
4. In triangles ABC and AED shown on the right, $\angle AED \cong \angle ABC$.

$$m \overline{AD} = 3 \text{ cm,}$$

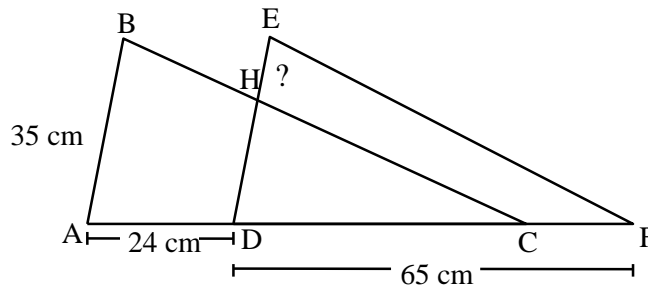
$$m \overline{DB} = 6 \text{ cm,}$$

$$m \overline{AE} = 4 \text{ cm.}$$

What is the measure of \overline{EC} ?



5. In the figure below, triangles ABC and DEF are congruent. Triangle ABC and DHC are similar.



What is the measure of \overline{EH} , rounded to the nearest unit?

6. In the figure on the right,

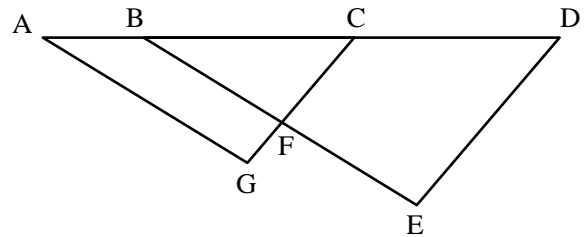
$$\angle GAC \cong \angle EBD, \quad \angle ACG \cong \angle BDE,$$

$$m \overline{AB} = 5 \text{ cm,} \quad m \overline{BC} = 10 \text{ cm,}$$

$$m \overline{CD} = 10 \text{ cm,} \quad m \overline{AG} = 12 \text{ cm,}$$

$$m \overline{DE} = 10 \text{ cm.}$$

What is the perimeter of triangle BCF?



7. Triangles ABC and DAE, shown below, are similar.

What is the measure of angle DAF?

