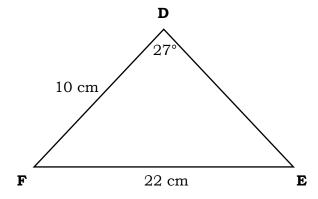
## SIMILAR SHAPES - PRACTICE QUESTIONS

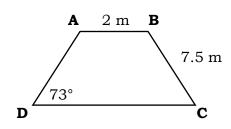
1. Triangles ABC and DEF are similar shapes.

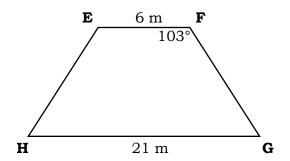


**A**5 cm
6 cm **C B** 



- (a) What is the size of angle CAB?
- (b) What is the length of side DE?
- (c) What is the size of angle DFE?
- (d) What is the length of side CB?
- 2. Shapes ABCD and EFGH are mathematically similar.

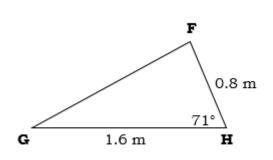


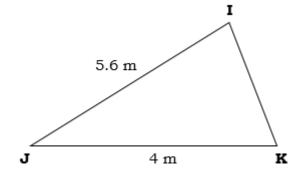


- (a) What is the length of side CD?
- (b) What is the size of angle ABC?
- (c) What is the length of side FG?

## 3.

Triangles FGH and IJK are mathematically similar.





- (a) Find the size of angle IKJ.
- (b) Find the length of line FG.
- (c) Find the length of line IK.

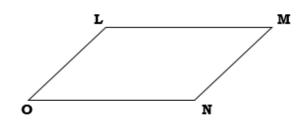
## 4.

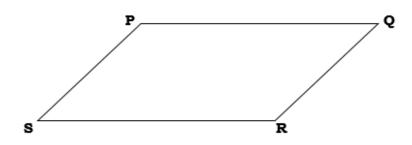
Shapes LMNO and PQRS are mathematically similar parallelograms.

$$LM = 5.5 m$$

$$QR = 6.2 \text{ m}$$

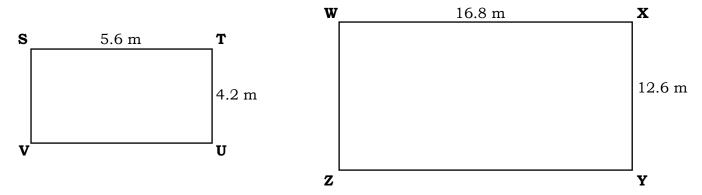
$$PQ = 11 \text{ m}$$





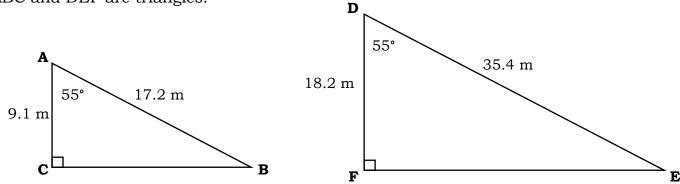
Find the perimeter of LMNO.

5. STUV and WXYZ are rectangles.



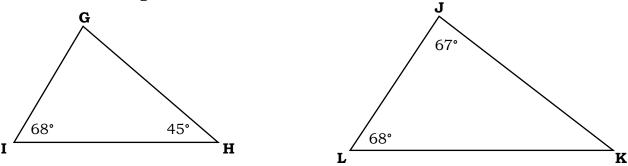
Are STUV and WXYZ mathematically similar? Give a reason for your answer.

6. ABC and DEF are triangles.



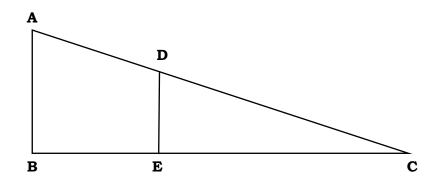
Are ABC and DEF mathematically similar? Give a reason for your answer.

7. GHI and JKL are triangles.



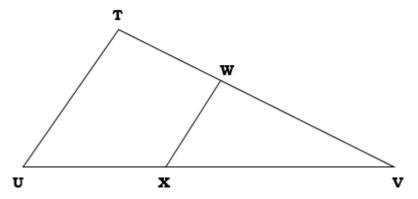
Are GHI and JKL mathematically similar? Give a reason for your answer.

8. ABC and DEC are mathematically similar triangles.



The length of line DC is 5 cm. The length of line BC is 6 cm. The length of line EC is 4 cm. The length of line AB is 4.5 cm.

- (a) Find the length of line DE.
- (b) Find the length of line AC.
- (c) Find the length of line AD.
- 9. Triangles TUV and WXV are mathematically similar.



WX = 5 cm UV = 19.5 cm TU = 11 cm XWV = 88° WVX = 26°

- (a) Find the size of angle TUV.
- (b) Find the length of XV to one decimal place.