Mathematics

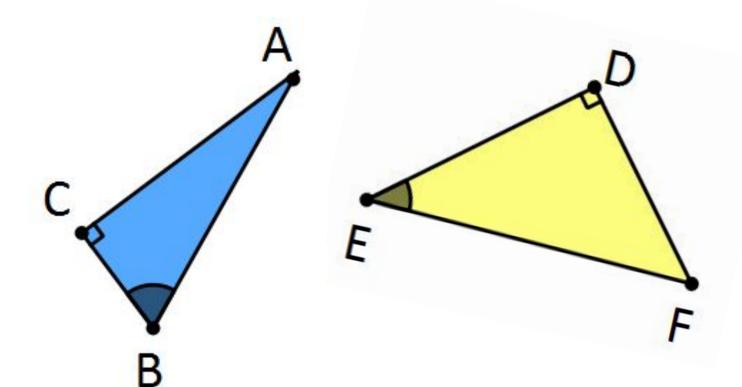
The sine and cosine for 30 and 60 degrees. Downloadable resource Lesson 9 of 12.

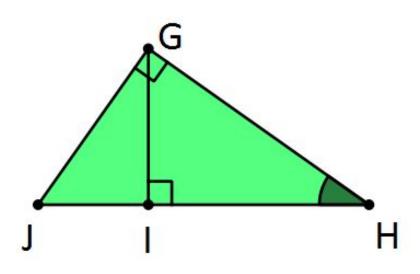




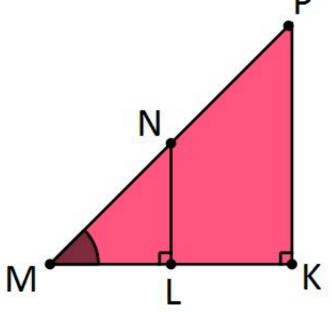
Try this

For each triangle, which side is opposite the marked angle, and which side is the hypotenuse?





- i) For triangle IGH.
- ii) For triangle GJH.



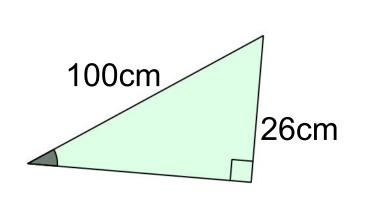
- i) For triangle MNL.
- ii) For triangle MKP.

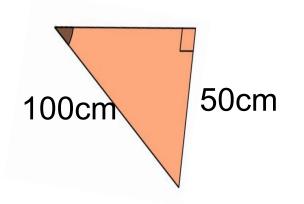


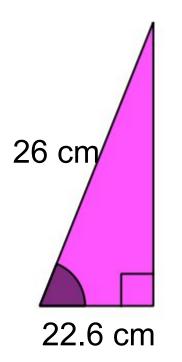
Independent task Hint: In a 30° triangle, $\frac{opposite}{hypotenuse}$ =0.

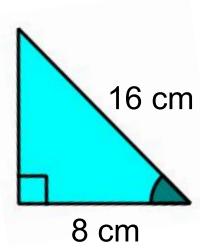
Which of these triangles have 30° angle marked?

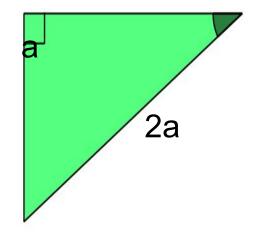
(Triangles are not drawn to scale).

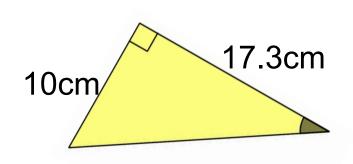


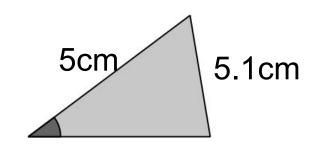














Explore

Find all the right-angled triangles which have a side length of 5 cm and an angle of 30°.

Put them in order from the smallest area to the largest area.

Find a right-angled triangle with an angle of 30° in which the perimeter has the same value as the area.

