

Identifying Opposite, Adjacent and Hypotenuse

Right triangle trigonometry is a process that allows you to use angle measures to find side lengths or to use side lengths to find angle measures. Before you can use this process, however, you must understand the steps needed to set up a trigonometry problem. The first and most important step is correctly identifying the **opposite** side, the **adjacent** side and the **hypotenuse**. These side labels will always depend on which angle you choose to focus on.

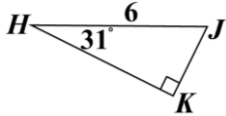
The **opposite** side is opposite the angle of focus.

The **adjacent** side connects the angle of focus to the right angle.

The **hypotenuse** is opposite the right angle.

It is not necessary to create small-medium-large tables to determine these labels. However, if you choose to create the tables, these labels become easy to identify. The side with the angle you focus on is "opp," the largest side (opposite the 90°) is "hyp" and the other side is "adj."

EXAMPLE



If $m\angle K = 90^\circ$ & $m\angle H = 31^\circ$, then (by triangle sum: $m\angle K + m\angle H + m\angle J = 180$) $m\angle J = 59^\circ$.

Put those in order (small-medium-large) on the table, then identify the opposite sides of each. Each side is opposite the angle letter on that line. (example: angle H is opposite the other two letters JK).

NOW, change the bottom (90°) side to "hyp," keep the side with your focus angle as "opp" and change the last side to "adj."

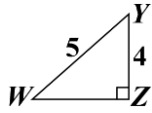
Focus on $\angle H$		
$m\angle H = 31^\circ$	\overline{JK}	(focus)→oppH
$m\angle J = 59^\circ$	\overline{HK}	opp Adj
$m\angle K = 90^\circ$	$HJ = 6$	opp K (with 90)→Hyp

Focus on $\angle J$		
$m\angle H = 31^\circ$	\overline{JK}	opp H Adj
$m\angle J = 59^\circ$	\overline{HK}	(focus)→oppJ
$m\angle K = 90^\circ$	$HJ = 6$	opp K (with 90)→Hyp

Create two small-medium-large tables for the triangle. Then, on each table, identify the three sides as opposite, adjacent or hypotenuse for each focus angle.

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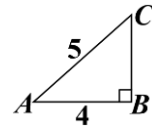
7.



Focus on $\angle W$

Focus on $\angle Y$

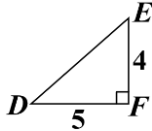
8.



Focus on $\angle C$

Focus on $\angle A$

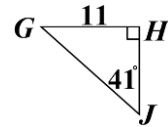
9.



Focus on $\angle E$

Focus on $\angle D$

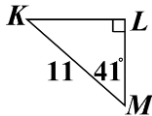
10.



Focus on $\angle J$

Focus on $\angle G$

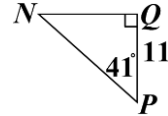
11.



Focus on $\angle M$

Focus on $\angle K$

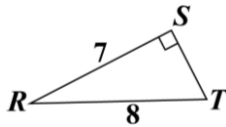
12.



Focus on $\angle P$

Focus on $\angle N$

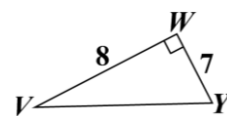
13.



Focus on $\angle R$

Focus on $\angle T$

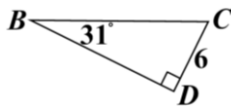
14.



Focus on $\angle Y$

Focus on $\angle V$

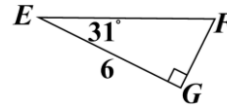
15.



Focus on $\angle B$

Focus on $\angle C$

16.



Focus on $\angle E$

Focus on $\angle F$

Identifying Opposite, Adjacent and Hypotenuse Answers

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