This book has permission to use the "N&K method of COLORS".

19) Question: In a triangle, where one of the angles is 90°, one of the other two angels is α .

If sin $\alpha = \frac{8}{10}$

What is the value of $\cos \alpha$?

nw,nc

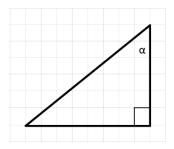
For speed, while solving something similar, only THINK the words in blue; WRITE only the words in other COLORS.

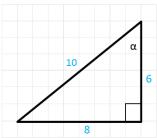
Given: 1) In a triangle, one of the angles is 90°

- 2) one of the other two angels is α
- 3) $\sin \alpha = \frac{8}{10}$
- Solve: What is the value of $\cos \alpha$?

Road Map of Solution:

First Step: Sketch a triangle, where one of the angles is 90°. Second Step: Mark one of the remaining angels as " α ". Third Step: Mark the appropriate sides as "8" and "10" units long. Fourth Step: Use Pythagorean Theorem to find the length of the remaining side. Fifth Step: Find the value of cos α .





Based on the lower sketch	 $\sin \alpha = \frac{8}{10}$		8
Based on the lower sketch	 $\cos \alpha = \frac{6}{10}$	Answer	