This book has permission to use the "N\&K method of COLORS".
19) Question: In a triangle, where one of the angles is $90^{\circ}$, one of the other two angels is $\alpha$.

If $\sin \alpha=\frac{8}{10}$
What is the value of $\cos \alpha$ ?
$n w, n c$
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 $90^{\circ}$
2) one of the other two angels is $\alpha$
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 $90^{\circ}$.
Second Step: Mark one of the remaining angels as " $\alpha$ ".
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 $\cos \alpha$.


Based on the lower sketch $\ldots \ldots \ldots \ldots \ldots . . \quad \sin \alpha=\frac{8}{10}$


Based on the lower sketch $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots . . \cos \alpha=\frac{6}{10} \quad$ Answer

