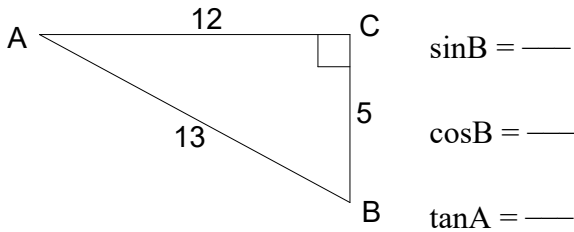


***You MUST show your work to receive full credit.***

1. Write the ratio as a **fraction**:



2. Write the ratio as a **decimal**:

$\sin 71^\circ =$  \_\_\_\_\_

$\cos 28^\circ =$  \_\_\_\_\_

$\tan 34^\circ =$  \_\_\_\_\_

3. Find the angle to the nearest degree:

$\sin A = 0.3256$ , so  $m\angle A =$  \_\_\_\_\_

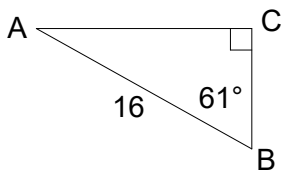
$\cos B = 0.4695$ , so  $m\angle B =$  \_\_\_\_\_

$\tan C = 0.4663$ , so  $m\angle C =$  \_\_\_\_\_

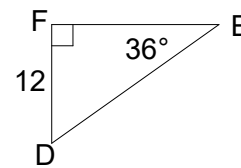
**Solve for the given variable.**

**WRITE AN EQUATION to show *how* you did it.**

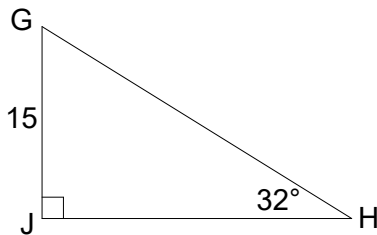
4.  $CB =$  \_\_\_\_\_



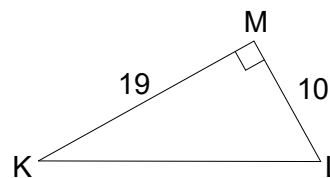
5.  $DE =$  \_\_\_\_\_



6.  $JH =$  \_\_\_\_\_



7.  $m\angle L =$  \_\_\_\_\_

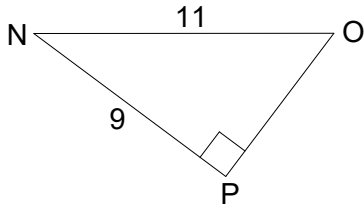


***You MUST show your work to receive full credit.***

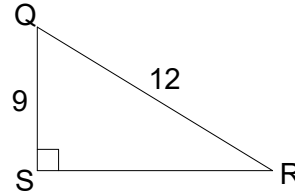
**Solve for the given variable.**

**WRITE AN EQUATION to show how you did it.**

8.  $m\angle O =$  \_\_\_\_\_



9.  $m\angle Q =$  \_\_\_\_\_



- 
10. From Washington Square in San Francisco, you can look southeast down Columbus Avenue and see the Transamerica Pyramid. To see the top of the pyramid, 850 feet above the ground, you have to look up at an angle of elevation of about  $15^\circ$ . Assume that Washington Square is the same elevation as the base of the Pyramid, and calculate, to the nearest 100 feet, how far it is from Washington Square to the Transamerica Pyramid.

**Write an equation** to show how you solved this problem.

distance = \_\_\_\_\_