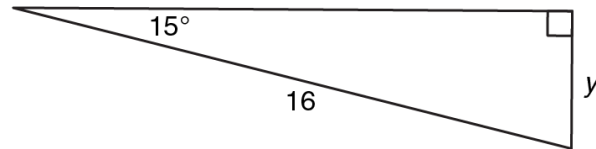


**Solving for Unknown Side Lengths Using Sine and Cosine**

1. Determine the length of side  $y$ , to the nearest tenth.

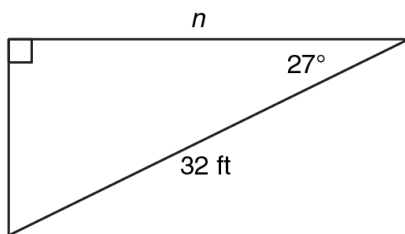


***Step 1: Identify and label the sides as being adjacent to, opposite, or the hypotenuse, in relation to the angle indicated.***

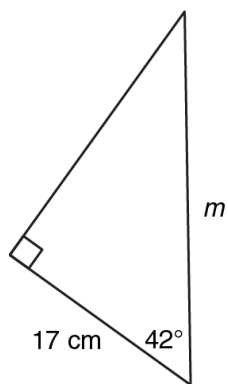
***Step 2: State the appropriate ratio.***

***Step 3: Substitute known values, and calculate the unknown value.***

2. Determine the length of side  $n$ , to the nearest tenth of a foot.



3. Determine the length of side  $m$ , to the nearest tenth of a centimetre.



4. Determine the length of side  $w$ , to the nearest tenth of an inch.

