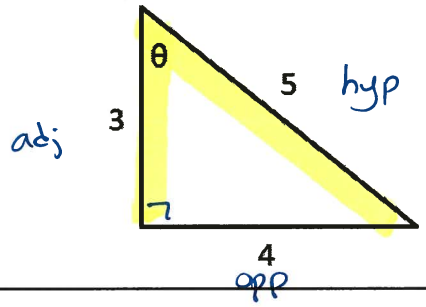
KEY

First Name:_____ Last Name:_____

L03 - Formative Quiz – Solving for Angles

Use the following information to answer Q1-Q3:

Trig Ratios for a 3-4-5 Triangle



Q1: For the triangle above, the ratio $Tan\ \theta = \frac{d}{e}$ where the integers ***d*** and ***e*** are ___ and ___.

*(Record your **two digit** answer in the Numerical Response boxes below)*

4	3		

$Tan\ \theta = \frac{o}{a}$

$Tan\ \theta = \frac{4}{3}$

Q2: What is the value of $Tan\ \theta$, to the nearest hundredth?

(Record your answer in the Numerical Response boxes below)

1	.	3	3

$Tan\ \theta = \frac{4}{3} = 1.33$

↑ Hundredth

Q3: What is the value θ?

*(Record your **two digit** answer in the Numerical Response boxes below)*

5	3		

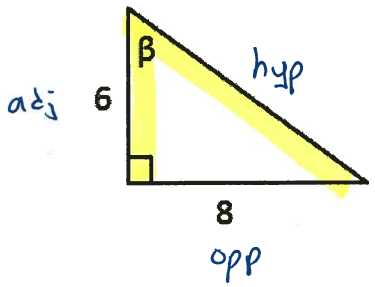
$Tan\ \theta = 1.\overline{3}$

$\theta = \tan^{-1}(1.\overline{3})$

$\theta = 53.13$

KEY

Q4: Solve for the angle β. *(2 marks)*



SohCahToa

$\tan\theta = \frac{o}{a}$

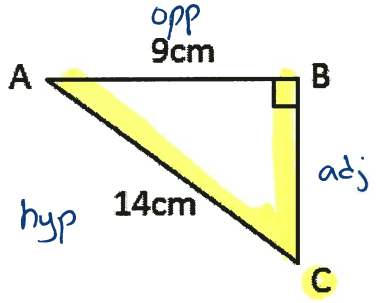
$\tan\theta = \frac{8}{6}$

$\tan\theta = 1.\overline{3}$

$\theta = \tan^{-1}(1.\overline{3})$

$\theta = 53.13^\circ$

Q5: Solve for the angle ∠C. *(2 marks)*



SohCahToa

$\sin\theta = \frac{o}{h}$

$\sin\theta = \frac{9}{14}$

$\sin\theta = 0.642857...$

$\theta = \sin^{-1}(0.642857...)$

$\theta = 40.0^\circ$

MARKING:

Beginning	0.0 –3.0
Progressing	3.5 – 4.5
Competent	5.0 – 6.0
Exemplary	6.5 – 7.0