



Trig Twisters

10
10

Name: _____
Date: _____

Directions: You and your partner will work together to solve these trigonometry-related problems. You solve the problems on the left and your partner will solve the problems on the right. When you are done, your answers will match — but the answers are NOT in the same order as the problems. Use your calculator and round answers to the nearest tenth unless stated otherwise.

<p>Find $\sin A$ in $\triangle ABC$.</p> <p>$\sin A = \frac{10}{15} = \frac{2}{3}$</p>	<p>What is the product of $\sin A$ and $\cos A$ in $\triangle ABC$?</p> <p>$\sin A = \frac{10}{15} = \frac{2}{3}$ $\cos A = \frac{15}{17}$ $\frac{2}{3} \cdot \frac{15}{17} = \frac{20}{17}$</p>
<p>In right triangle ABC, with right angle at B, the side $AC = 10$. Find A to the nearest degree.</p> <p>$\sin A = \frac{8}{10} = 0.8$ $A \approx 53^\circ$</p>	<p>Find $\sin A$ in $\triangle ABC$.</p> <p>$\sin A = \frac{6}{10} = \frac{3}{5}$</p>
<p>What is the product of $\sin A$ and $\cos A$ in $\triangle ABC$?</p> <p>$\sin A = \frac{6}{10} = \frac{3}{5}$ $\cos A = \frac{8}{10} = \frac{4}{5}$ $\frac{3}{5} \cdot \frac{4}{5} = \frac{12}{25}$</p>	<p>Express $\sin A$ as a fraction.</p> <p>$\sin A = \frac{6}{10} = \frac{3}{5}$</p>
<p>Express $\sin B$ as a fraction.</p> <p>$\sin B = \frac{6}{10} = \frac{3}{5}$</p>	<p>In right triangle ABC, with right angle at B, the side $AC = 10$. Find B to the nearest degree.</p> <p>$\sin B = \frac{8}{10} = 0.8$ $B \approx 53^\circ$</p>