

IS THIS CLEVER ... OR WHAT?

$$\frac{\sqrt{8-2\sqrt{15}}}{4}$$

WAS THE ANSWER  
TO A PROBLEM.

A STUDENT ASKED  
IF HIS RESPONSE  
WAS EQUIVALENT:



$$\frac{\sqrt{5}-\sqrt{3}}{4}$$

HIS LOGIC:

$$\begin{aligned}\frac{\sqrt{8-2\sqrt{15}}}{4} &= \frac{\sqrt{8-2\cdot\sqrt{5}\cdot\sqrt{3}}}{4} \\ &= \frac{\sqrt{5-2\cdot\sqrt{5}\cdot\sqrt{3}+3}}{4} \\ &= \frac{\sqrt{(\sqrt{5}-\sqrt{3})(\sqrt{5}-\sqrt{3})}}{4}\end{aligned}$$

CHECK WITH G.C.:

$$\frac{\sqrt{(8-2\sqrt{15})}/4}{.1260042925}$$

$$\frac{(\sqrt{5}-\sqrt{3})/4}{.1260042925}$$

$$\frac{\sqrt{(\sqrt{5}-\sqrt{3})^2}}{4}$$

$$\frac{\sqrt{5}-\sqrt{3}}{4}$$

OH MY!