**Favorite Math Problem**

**Problem:  George and Phil were playing with their fish tank again. They had a difficult time keeping their fish alive. The fish tank is 100cm long, 60 cm wide and 40 cm high. They tilted the tank, as shown, resting on a 60 cm edge, with the water level reaching the midpoint of the base. When they rest the tank down to a horizontal position, what is the depth of the water in cm? (9th grade math problem)**

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**ANSWER:**

 **Volume of the water =**

 **Volume of 1/2 of tank = 1/2 100cm \* 40cm \* 60cm**

 **= 120,000**

 **1/2 (120,000) = 60,000**

 **60,000 = 100 cm \* 60 cm \* d**

 **10 cm = d**