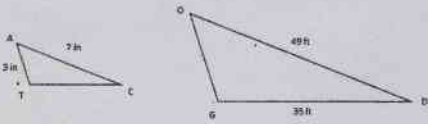


Write & Solve a Proportion for each question. When necessary, round your answer to the nearest hundredth

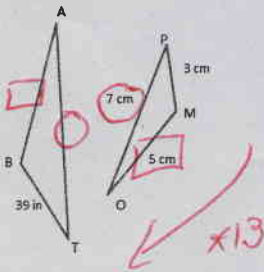
1.  $\triangle CAT \sim \triangle DOG$ . Determine the length of  $\overline{TC}$  and  $\overline{GO}$  (16 pts each)



$$\begin{aligned} *7 \downarrow \frac{7 \text{ in}}{49 \text{ ft}} &= \frac{TC}{35} \uparrow \div 7 & *7 \downarrow \frac{7 \text{ in}}{49 \text{ ft}} &= \frac{TC}{OG} \downarrow *7 \end{aligned}$$

$\overline{TC} =$	<u>5 in</u>
$\overline{GO} =$	<u>21 ft</u>

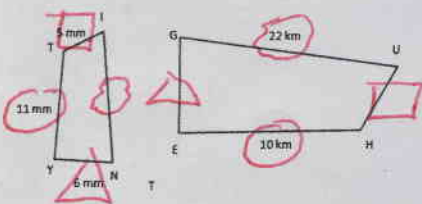
2.  $\triangle BAT \sim \triangle MOP$ . Determine the length of  $\overline{AT}$  and  $\overline{BA}$  (16 pts each)



$$\begin{aligned} \downarrow \frac{3}{5} &= \frac{7}{AT} & \frac{3}{39} &= \frac{5}{BA} \\ *13 & & & \end{aligned}$$

$\overline{AT} =$	<u>91 in</u>
$\overline{BA} =$	<u>65 in</u>

3. Quadrilateral TINY  $\sim$  Quadrilateral HUGE. Determine the missing lengths. (12 pts each)



$\overline{IN} =$	<u>24.2</u>
$\overline{GE} =$	<u>5.45</u>
$\overline{UH} =$	<u>4.54</u>

$$\begin{aligned} \frac{O}{O} &= \frac{\square}{\square} & \& \frac{\triangle}{\triangle} & \& \frac{\square}{\square} \\ \frac{11}{10} &= \frac{5}{UH} & \frac{11}{10} &= \frac{6}{GE} & \frac{11}{10} &= \frac{12}{22} \end{aligned}$$