

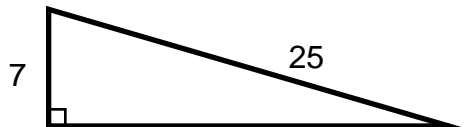
Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

**Find the length of the third side of each triangle.**



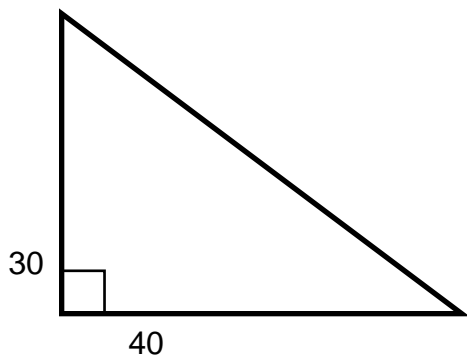
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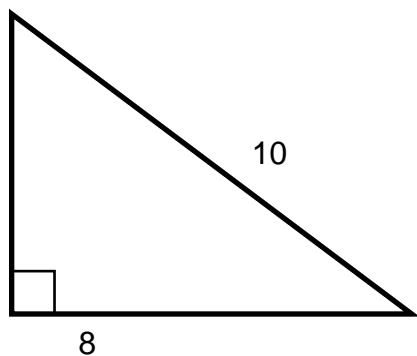
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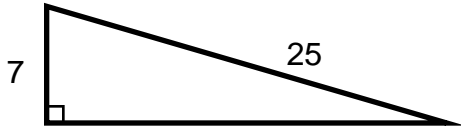
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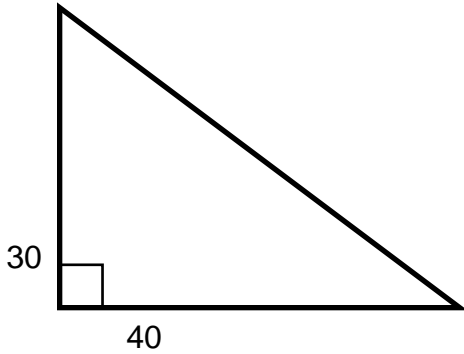
Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

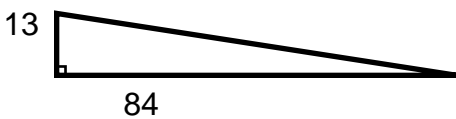
**Find the length of the third side of each triangle.**



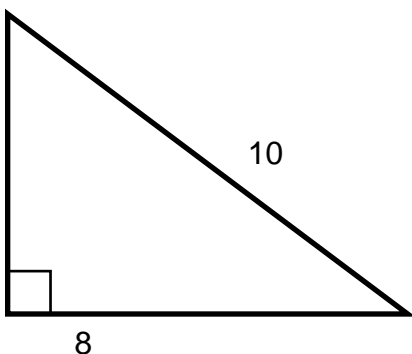
$$\begin{aligned}7^2 + b^2 &= 25^2 \\49 + b^2 &= 625 \\b^2 &= 625 - 49 \\b^2 &= 576 \\b &= \sqrt{576} \\b &= 24\end{aligned}$$



$$\begin{aligned}30^2 + 40^2 &= c^2 \\900 + 1600 &= c^2 \\2500 &= c^2 \\\sqrt{2500} &= c \\50 &= c\end{aligned}$$



$$\begin{aligned}13^2 + 84^2 &= c^2 \\169 + 7056 &= c^2 \\7225 &= c^2 \\\sqrt{7225} &= c \\85 &= c\end{aligned}$$



$$\begin{aligned}a^2 + 8^2 &= 10^2 \\a^2 + 64 &= 100 \\a^2 &= 100 - 64 \\a^2 &= 36 \\a &= \sqrt{36} \\a &= 6\end{aligned}$$

