

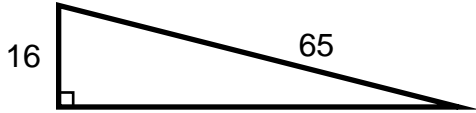
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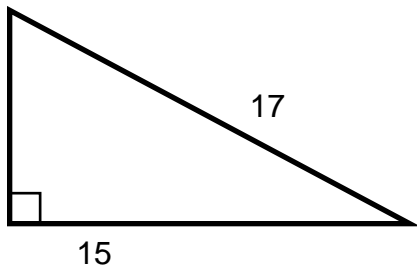
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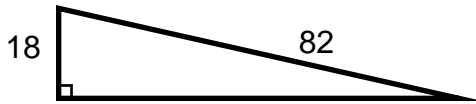
Teacher : _____

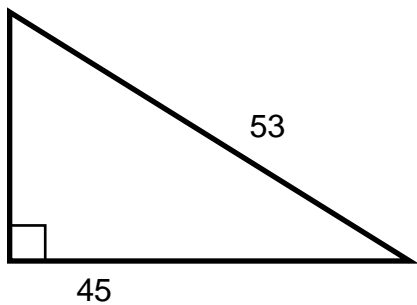
Date : _____

Find the length of the third side of each triangle.











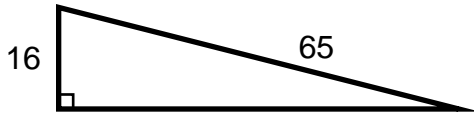
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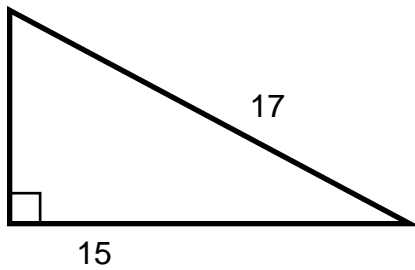
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Date : _____

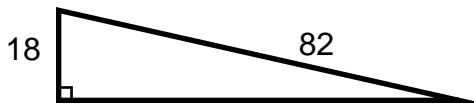
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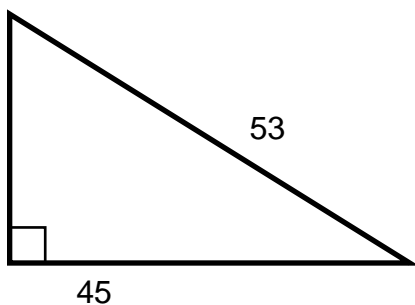
$$\begin{aligned} 16^2 + b^2 &= 65^2 \\ 256 + b^2 &= 4225 \\ b^2 &= 4225 - 256 \\ b^2 &= 3969 \\ b &= \sqrt{3969} \\ b &= 63 \end{aligned}$$



$$\begin{aligned} a^2 + 15^2 &= 17^2 \\ a^2 + 225 &= 289 \\ a^2 &= 289 - 225 \\ a^2 &= 64 \\ a &= \sqrt{64} \\ a &= 8 \end{aligned}$$



$$\begin{aligned} 18^2 + b^2 &= 82^2 \\ 324 + b^2 &= 6724 \\ b^2 &= 6724 - 324 \\ b^2 &= 6400 \\ b &= \sqrt{6400} \\ b &= 80 \end{aligned}$$



$$\begin{aligned} a^2 + 45^2 &= 53^2 \\ a^2 + 2025 &= 2809 \\ a^2 &= 2809 - 2025 \\ a^2 &= 784 \\ a &= \sqrt{784} \\ a &= 28 \end{aligned}$$

