

### Challenge Problem #34

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Challenge problems are worth 30 points each. 6 points will be earned for the correct answer. This includes using **appropriate units**. 12 points will be earned by **showing the mathematical process** used in getting the answer. **A diagram is required for this problem**. The last 12 points will be earned by **writing a complete explanation** of the reasoning used to solve the problem. Good luck.

Sue wants to put new floor tiles in her bedroom. The room is 10 feet wide and 12 feet long. If each floor tile is 6 inches wide and 8 inches long, then how many tiles will it take to cover the floor?