

# Math Forum - Problem of the Week

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## 3619: Wooden Legs

Wendy builds wooden dollhouse furniture. She uses the same kind of legs to make 3-legged stools and 4-legged tables.



She has a supply of 31 legs and wants to use them all to make stools and tables.

Find all the different ways she can use them.

Explain how you solved the problem and how you know you have found all solutions.

**Extra:** Wendy sells her furniture to the local toy store. She gets \$2 for each stool and \$3 for each table. Of all the ways you found which would earn her the most money?

Be sure to explain how you know.

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