

## Tiling rectangles with polyominoes

Consider a rectangle with sides 4 and 8. Can this be tiled with dominoes? Explain your answer.

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Consider a rectangle with sides 5 and 26. Can this be tiled with dominoes? Explain your answer.

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Consider a rectangle with sides 15 and 23. Can this be tiled with dominoes? Explain your answer.

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Can you prove or disprove the following conjecture?

**Conjecture:** A rectangle can be tiled with I-triominoes if and only if its area is divisible by 3.

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What can you find out about the tiling properties of I-tetrominoes? As a result of your experiments, can you prove or disprove the following conjecture?

**Conjecture:** A rectangle can be tiled with I-tetrominoes if and only if its area is divisible by 4.

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