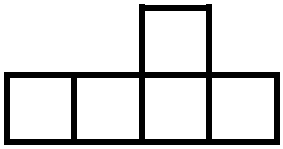
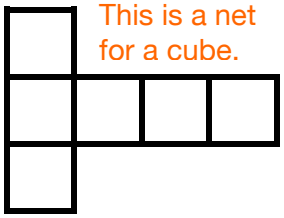
# Geometric Nets

## Use What You've Learned
## Answers and Explanations

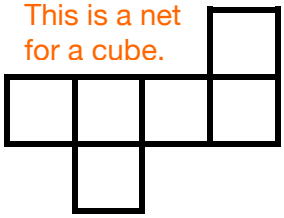
1. Which of the following patterns are nets for a cube? Determine your answers by visually folding each pattern. If a pattern is not a net for a cube, explain why the pattern does not work. If you want to check your work, cut out and fold the patterns on the last few pages.



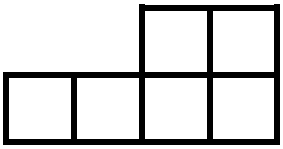
This is not a net for a cube, because it is missing one face.



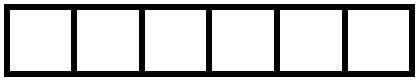
This is a net for a cube.



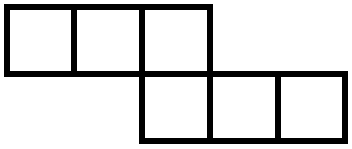
This is a net for a cube.



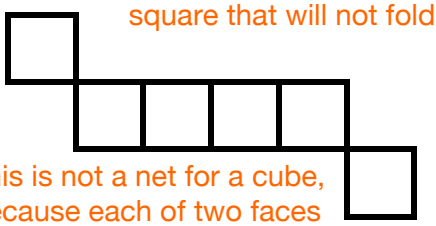
This is not a net for a cube, because the cluster of four small squares forms a large square that will not fold.



This is not a net for a cube, because when folded some faces will overlap.

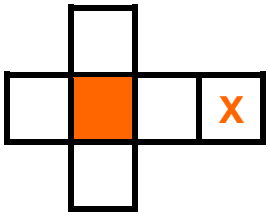


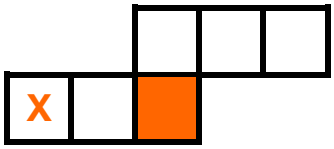
This is a net for a cube.

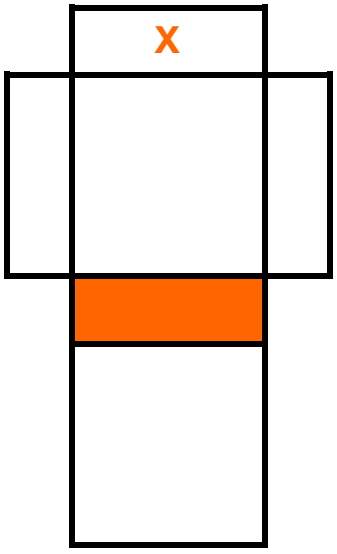


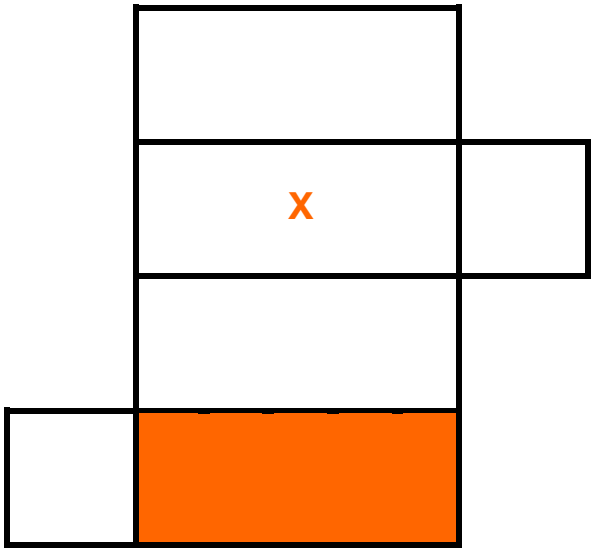
This is not a net for a cube, because each of two faces are only connected at one point.

2. Each of the following nets has one shaded face. Visualize the box sitting on the face that is shaded. Determine which face would be the top face of the box and mark it with an X. If you want to check your work, cut out and fold the patterns on the last few pages.



3. The column on the left shows three different boxes and the column on the right shows a net for each box that is missing one or more faces. Sketch additional faces to complete the nets.
The following diagrams show one way to complete each net. Other answers are also possible.