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Module 10 Coordinate Geometry and Spatial Visualization Lesson 5 Building Models

## Challenge Problems

 10.5
## Set 1

1) Pete says that any net made from six squares can be folded into a cube. Do you agree? Explain.
(2) How many different nets are there for a cube?

## Set 2

(1) Molly says that the right and left views of a figure are always the same. Do you agree? Explain.

Sketch or build a three-dimensional figure with these views.

Top View


Front View


Right View

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# Module 10 Coordinate Geometry and Spatial Visualization <br> Lesson 5 Building Models 

## Possible Answers

## Set 1

1. Disagree. In order to fold into a cube, the six squares of the net must be positioned correctly. If not, the net will not fold into a cube. For example, the six-square net shown here cannot be folded into a cube. If you fold it, there is a hole left on one side.

2. The 11 nets are shown below.


## Set 2

1. No. The left- and right-side views of a figure can be different. For example, in the figure shown here, the left-side and right-side views are not the same. They are mirror images, however.


Left view Right view


2.


