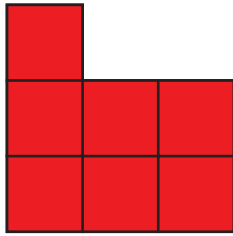


X-ray Vision

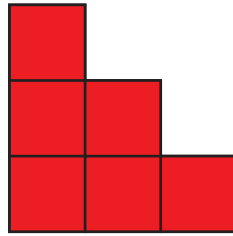
You need: multilink cubes, square grid paper, isometric dot paper, scissors, sticky tape

ACTIVITY

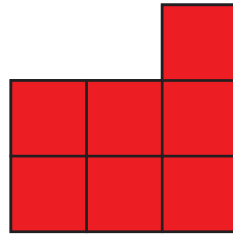
Debbie is making models of buildings out of multilink cubes. She uses 12 cubes to make a building that fits the following views:



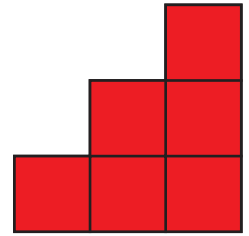
Rear view



Left-side view



Front view



Right-side view



1. Make the building, using 12 cubes.
2.
 - a. Make the building, this time using as many cubes as possible. How many cubes have you used?
 - b. Draw this building on isometric dot paper.
 - c. Draw a net of the building on square grid paper. Cut, fold, and join the matching edges to check that it works.
3.
 - a. Xiao-lu found a way to make the same building with only 9 cubes. Make this building.
 - b. Draw a bird's-eye view of the 9-cube building.
 - c. Draw a diagram of the 9-cube building on isometric dot paper.
4. Can you make the building with just 8 cubes? Explain your answer.