Geometry Bk 2 Level 4+

Winning Ways

You need: multilink cubes, isometric dot paper

Rawinia has to make a new winners' stand for the school sports day. She has drawn up 3 possible plans:

ACTIVITY



- Rawinia makes models of the 3 stands, using multilink cubes. How many cubes does she need for each?
- 2. Draw an isometric drawing of each stand, looking at it from the direction shown by the arrow.
- **3.** Stand **a** uses the fewest cubes, but Rawinia realises that if she makes this design, the winner could find it difficult to get to the top step when the second- and third-placed people are in position. Rawinia thinks stand **b** uses too many cubes.

She asks you to design a better stand: one that leaves space for people to get to the next level while keeping the number of cubes to a minimum.

Make a 3-dimensional (3-D) model of your winners' stand, using multilink cubes.

4. Draw the bird's-eye view and an isometric view of your stand. Comment on its features, including the number of cubes used, its accessibility, and its appearance.

