## Castle Construction

You need: card, scissors, a ruler, glue, felt pens or brushes and paint, a drawing compass, a classmate

1. Follow the instructions below to make a model of a mediaeval castle. When finished, it will have:


Make 7 wall sections using these dimensions. Use your own measurements for the battlements.

## STEP TWO

Make 2 square towers using these dimensions. Fold each tower and glue the edges. Add a roof to each, gluing it in place a centimetre below the top.



Make 4 circular towers using these dimensions.

2. Using centimetres (cm) and centimetres squared $\left(\mathrm{cm}^{2}\right)$ as your units, what is:
a. the floor area of each square tower?
b. the floor area of the Great Room?
c. the diameter of each circular tower?
d. the floor area of each circular tower?
e. the circumference of the roof of each tower when glued?
3. Decorate the walls, drawing windows and a drawbridge.
4. Fold the tabs on the wall sections and glue these to the towers and the Great Room. From above, your completed castle should look like this. $\qquad$
5. a. Using centimetres squared as the unit, estimate
 the area of the inner space enclosed by the castle.
b. Discuss with a classmate what the scale length of 1 centimetre might represent in a real castle.

