Castle Construction

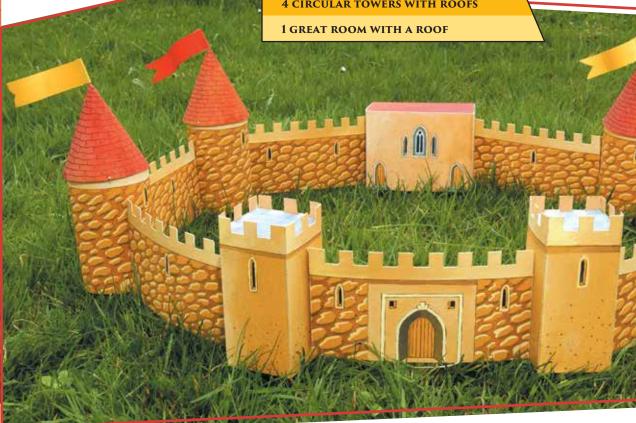
You need: card, scissors, a ruler, glue, felt pens or brushes and paint, a drawing compass, a classmate

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

7 WALL SECTIONS

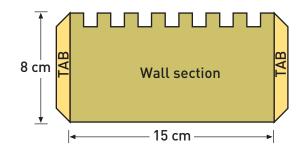
2 SQUARE TOWERS WITH ROOFS

4 CIRCULAR TOWERS WITH ROOFS



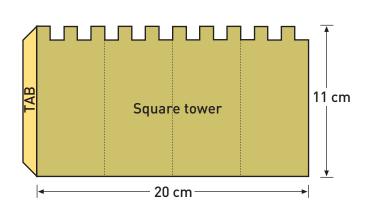
STEP ONE

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



STEP TWO

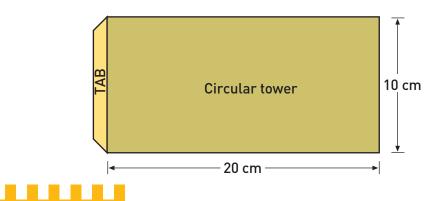
Make 2 square towers using these dimensions. Fold each tower and glue the edges. Add a roof to each, gluing it in place a centimetre below the top.



STEP THREE

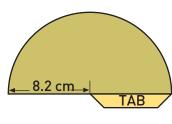
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Make 4 circular towers using these dimensions.



STEP FOUR

Make a roof for each circular tower, using these dimensions.



STEP FIVE

Make the rectangular Great Room. It is 12 centimetres long, 6 centimetres wide, and 9 centimetres high. Add tabs where needed. Make and fit a roof.



- 2. Using centimetres (cm) and centimetres squared (cm²) 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.
- **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.

