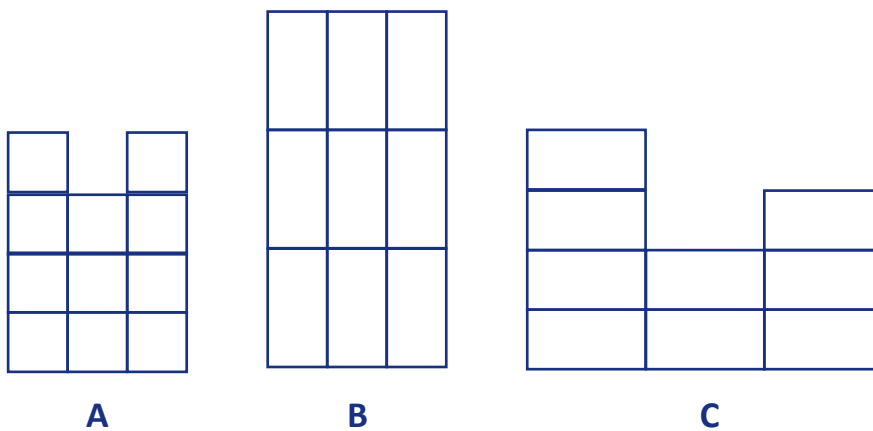


Castles on the ground

Ravi enjoyed designing plans for a castle so much that he decided to have another go. This time, instead of using cubes to make the castle he has used **cuboids**. (Cuboids are also called rectangular prisms).

The front view of his new castle is drawing A; the top view is drawing B; and the side view is drawing C.



Build a castle to Ravi's design using the cuboids.

What is the **largest number** of cuboids that you can use in the construction of a castle from Ravi's plans?

What is the **smallest number** of cuboids that you can use in the construction of a castle from Ravi's plans?

Can you build a **symmetrical** castle that is different from any of the ones you have built so far?

How many symmetrical castles can you build to Ravi's specifications?

Is it possible to design plans for a castle so that it can only be built in one way (uniquely)?