

Volume of our Classroom

Andy and Guillaume
are presenting our classroom
and
give you a new task from France.

Description of a classroom

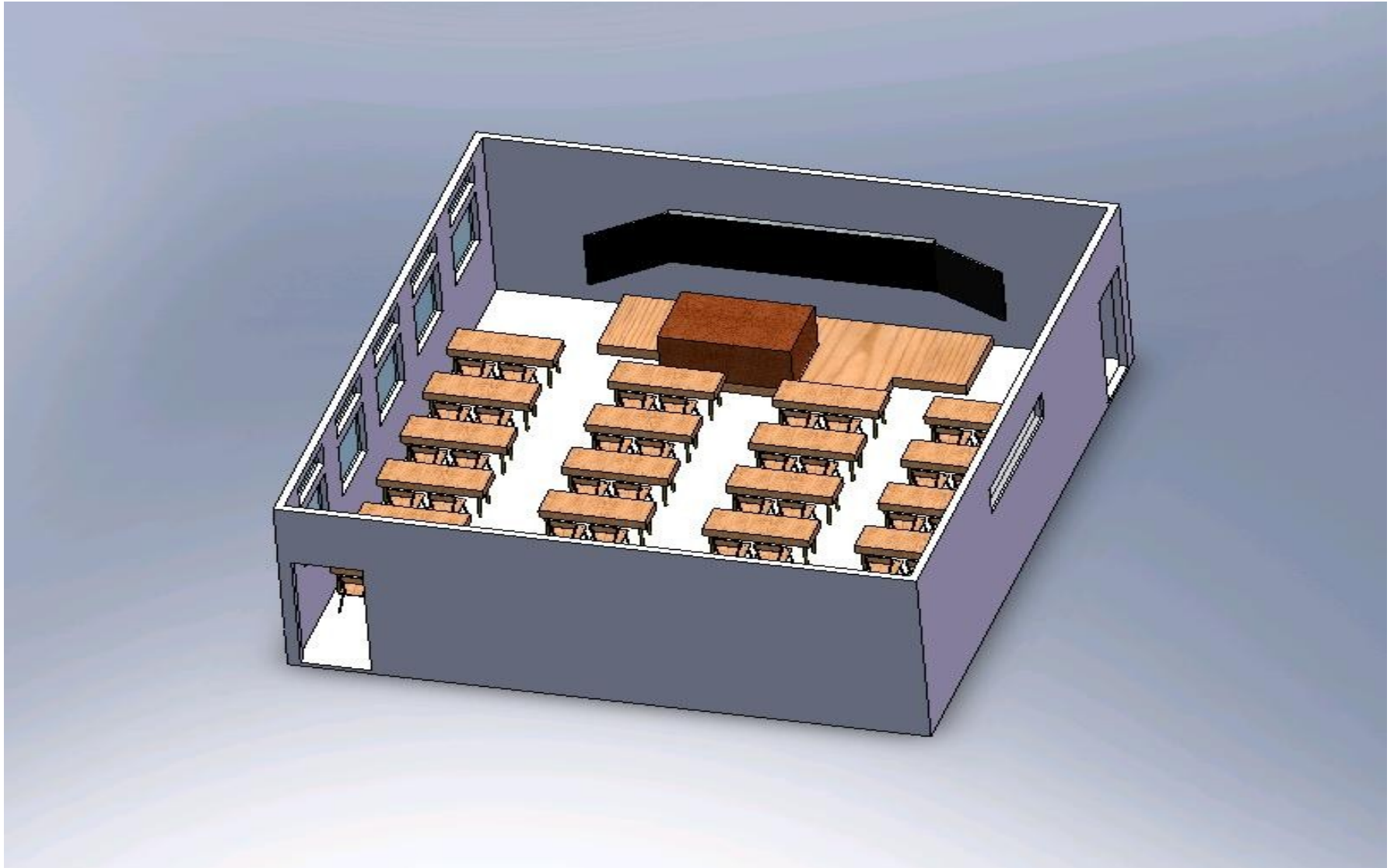
The volume of your classroom :

Your work is to consider geometrically your classroom, to describe it with a diagram and to calculate its volume.

Your final task is to write a report about your classroom and describe it from a math point view.

We're interesting to know how is your room because we're not here to see it !

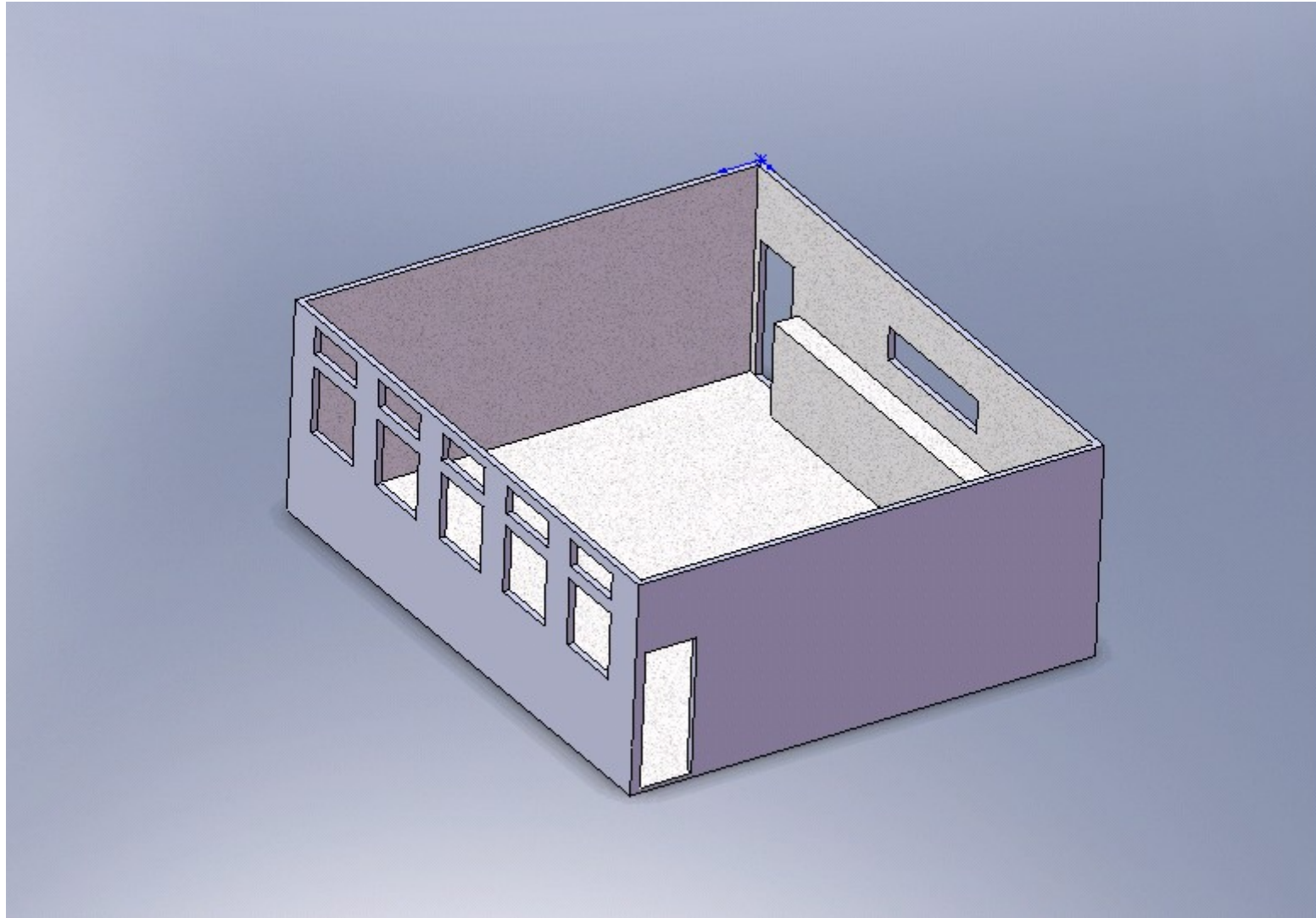
Our classroom in France



3D shapes and volume :

We note the shape of the classroom is a big cuboid, the wall (we can't see it on the draw) and the door way are cuboid. Formula of volume of the cuboid : Length by width by height.

Mathematics model :



The measurements :

With a measure tape, you have to take the measurements of your classroom. Sketch a diagram for more details, and draw a panoramic view.

Our results.

Guillaume calculates that our classroom has a volume of 188,44 cubic metres.

What about your classroom?

Weight of air in our classroom.

Considering that 1 litre air weighs 1,3 grams, Guillaume also calculates that the weight of air in our room is 244,972 kg.

Quoting his work: if this result is right, it's very very incredible....

What do you think?

Additional information.

Andy uses a software called « Solidworks » to sketch the diagrams: this software is also commonly used in the school regular Engineering classes.

I, the math teacher, just finished their work in the form of a « powerpoint » presentation for you all to understand the task to be done now.