

## Andy&Aaron's tales – Part 6

This week Andy has decided that he wants to spend some time renewing his house. You should imagine who he asked help to...

Write only with black or blue pen, things written with pencil will not be considered. Read the exercises carefully. Show your work and circle your answer.

Exercise 1 (10pt): The first thing Andy wants to do is to put a “cool” stripe with his name all around the house (in this case Aaron is not saying anything... he’s not going to live with him!!!). The perimeter of the house is 6148456 mm.

Aaron: “Did you measured in millimeters???”

Andy: “Yeah, I don’t want to loose any money!!”

a) Find the scientific notation for the measurement

b) How much paper are they going to use if the area of the small model is  $20 \text{ cm} \times 3 \text{ cm}$ ?

Exercise 2 (7pt): Andy loves his car (an old Italian Fiat 500) and he constructed a small model to put in the living room.

Andy: “I love it, I’m such a great sculptor”

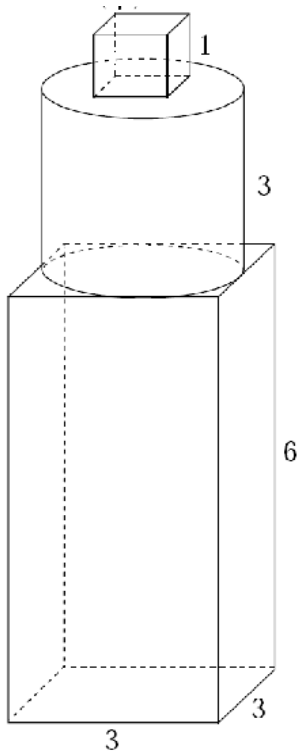
Aaron: “Actually it seems more a box then a car... and I really hope that your car is not yellow and pink as your model...”

Andy: “Why not?? I don’t understand....”

Aaron: “I need help :( ”

Let us consider a scaling factor for the areas equal to 81. Find out the real volume of the car, whose model has a volume of  $22 \text{ cm}^3$ .

Exercise3 (7pt): Andy wants to put something artistic outside his house. This is the picture of his sculpture:



Aaron: "This doesn't make any sense, it's like the drawing of a baby..."

Andy: "I love it, you don't have artistic taste!"

Aaron: "Actually it is perfect outside YOUR house!"

Find the surface area of Andy's "sculpture"

NAME..... ID.....

