

Volume and Surface Area. What's the Difference?

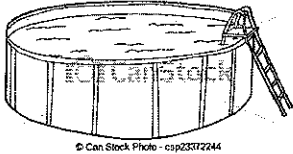
Name: _____



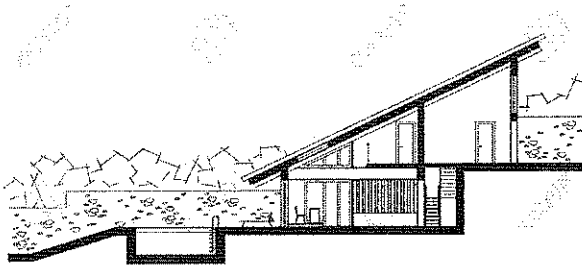
WELL, LET'S LOOK AT VOLUME FIRST.

DO YOU REMEMBER THIS ?

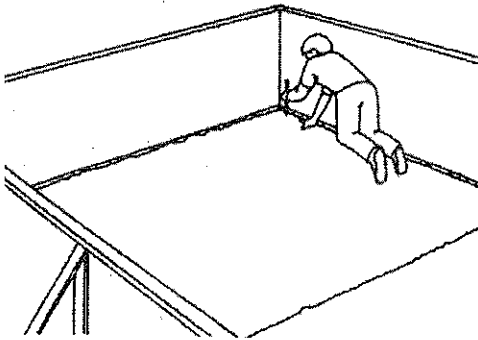
Volume is the space inside.



The volume of the swimming pool is the part where the water is.



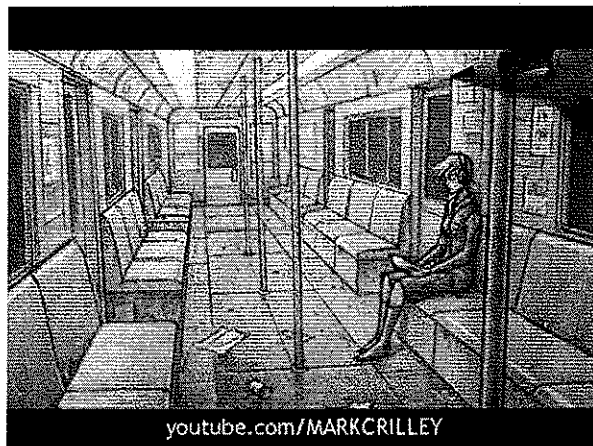
Can you see the swimming pool in this architect's drawing? You can look at the volume from the side.



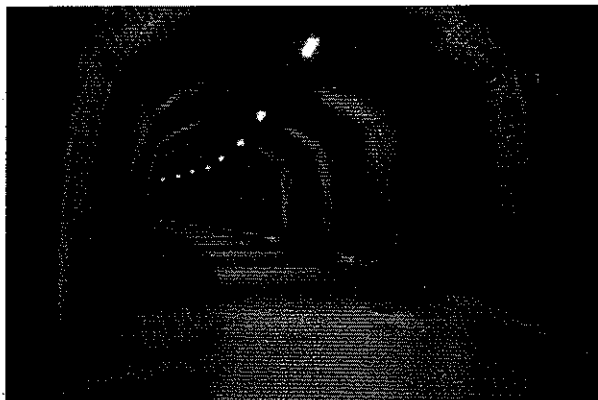
Here is someone building a swimming pool. The volume is not yet filled with water.

YES.
VOLUME IS THE SPACE INSIDE.

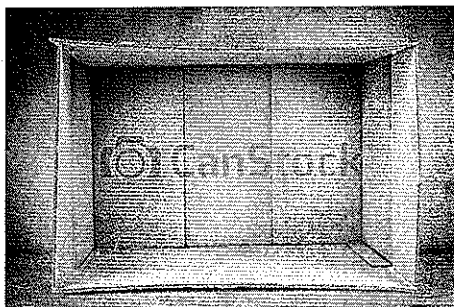
This shows the volume inside a train carriage:



This shows the volume inside a tunnel:

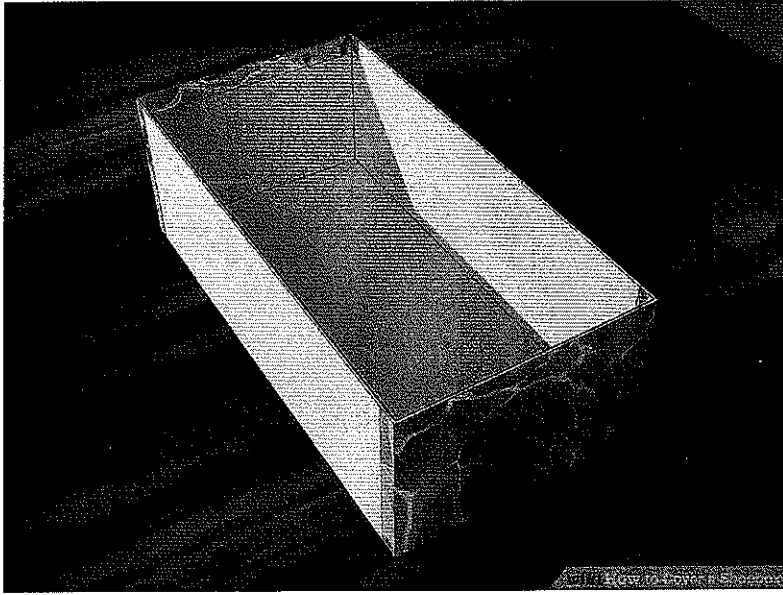


This shows the volume inside one cardboard box:



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And this shows the volume inside another cardboard box.



VOLUME IS THE SPACE INSIDE.

Revision.

Question 1.

What is volume?

Question 2.

Give 3 examples of volume.

Start your answers with "The space inside a ...".

1. _____.

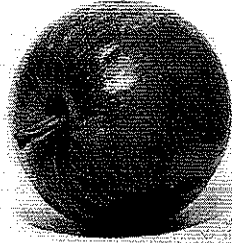
2. _____.

3. _____.

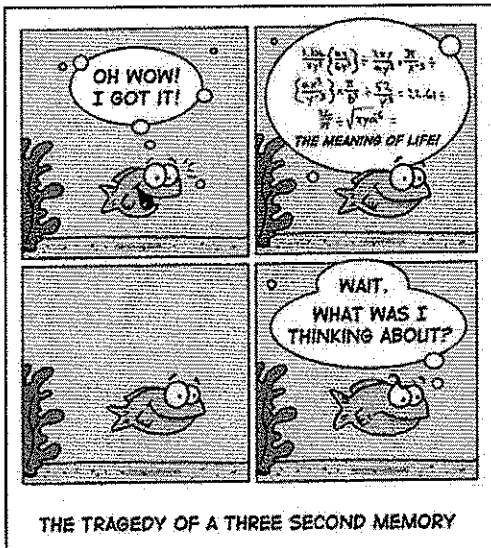
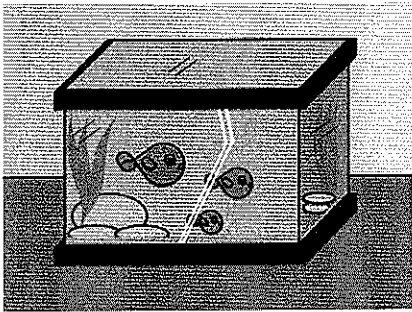
NOW, LET'S LOOK AT SURFACE AREA.

SURFACE AREA

1. The surface area of this apple, is the skin part.

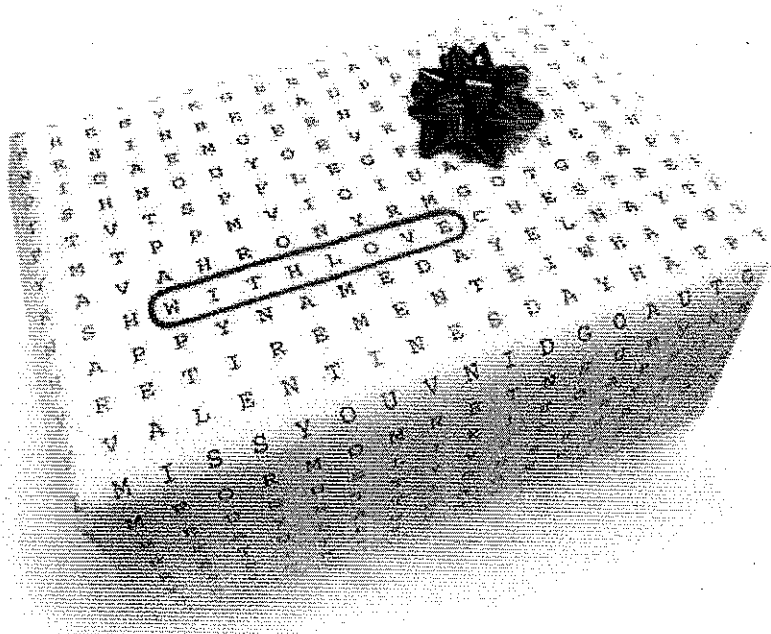


2. The surface area of this fish tank is the glass part, the base and the lid.

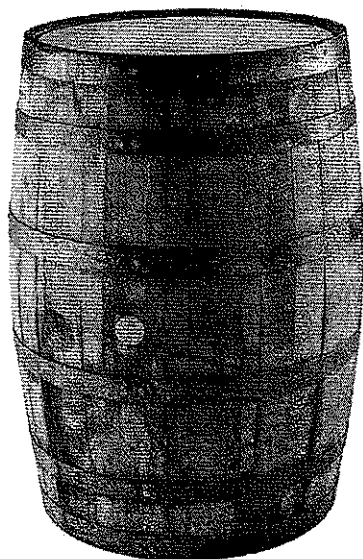


(Life in a fish tank!)

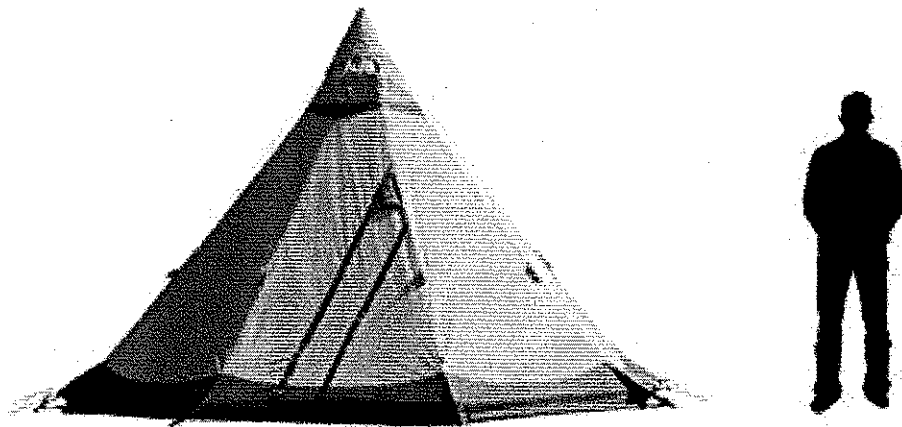
3. The **surface area** of this gift is the wrapping paper part.



4. The **surface area** of this barrel is the wood and iron part.



5. The **surface area** of this tent is the canvas part.



SURFACE AREA IS THE OUTSIDE PART.

Revision.

Question 3.

What is surface area?

Question 4.

Give 3 examples of surface area.

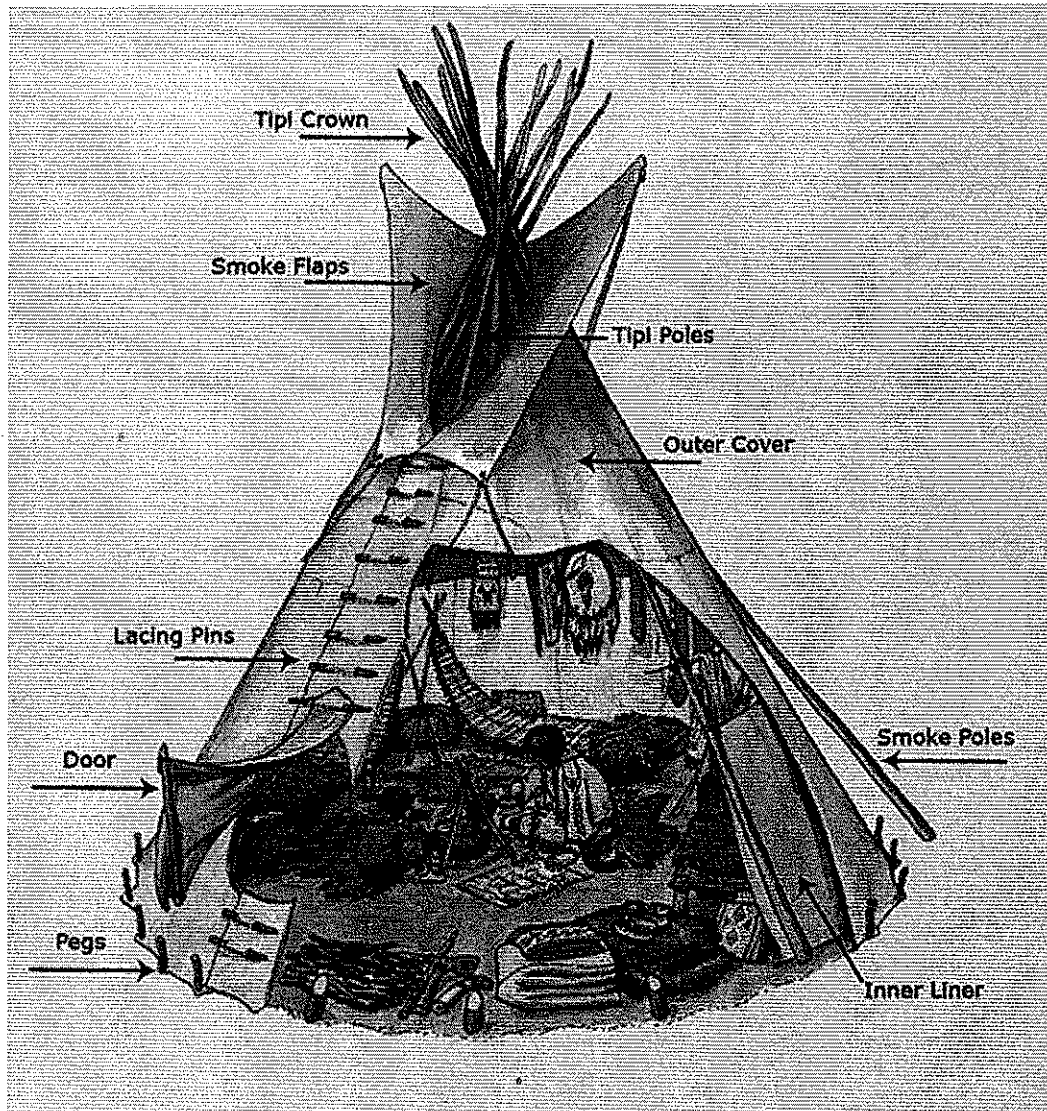
Start your answers with "The outside part of a ...".

1. _____.

2. _____.

3. _____.

If we look at this teepee, we can see both the volume and the surface area.
We know the surface area is the canvas.
And the volume is the inside part where the young girl is sitting.

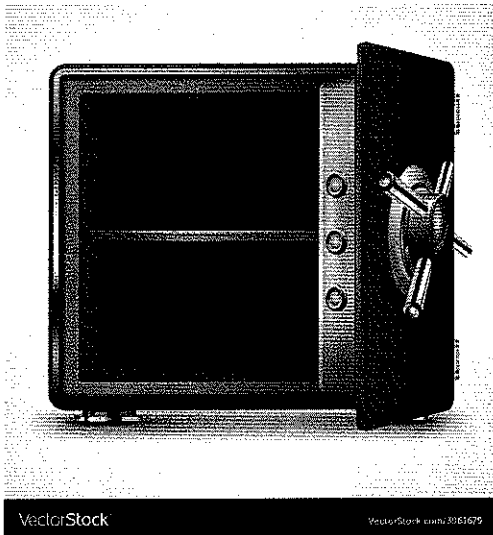


Now let's see how you go at labelling.

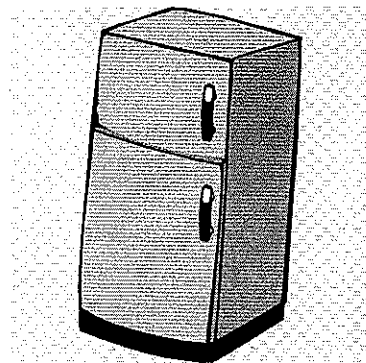
Label each of the following images.

Write either the word **'volume'**, or the words **'surface area'**.
(Remember, if you can see the space inside, it's 'volume' and if you can only see the outside part, it's 'surface area'.)

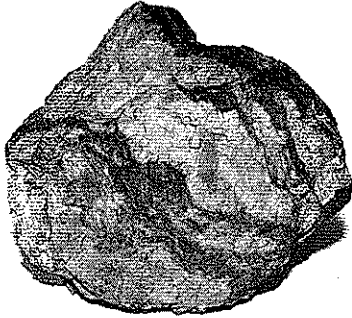
A. An empty safe: _____



B. A closed fridge: _____



C. A rock: _____



D. The Rock: _____

The Rock



E. A cavern: _____



DO YOU THINK YOU HAVE IT NOW?