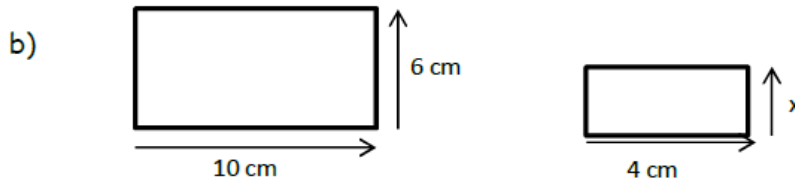
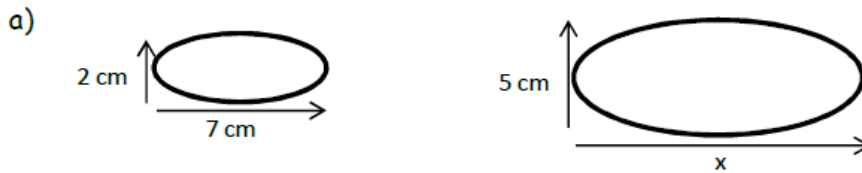
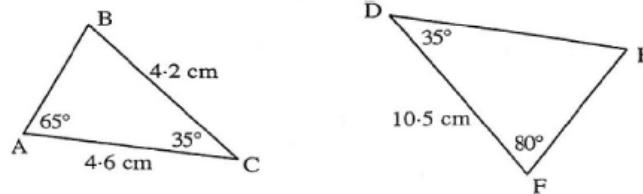


Ex 24 Similar Figures

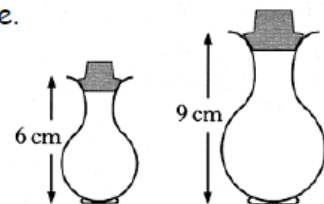
1. The following shapes are mathematically similar. Find the length of side x .



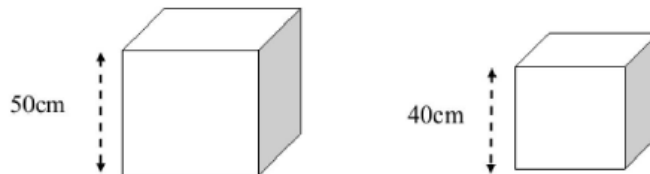
2. Study the two triangles shown.



- a) Explain clearly why the two triangles must be similar.
- b) Use the fact that the two triangles are similar to calculate the length of the line DE .
3. Two perfume bottles are mathematically similar in shape. The smaller one is 6 centimetres high and holds 30 ml of perfume. The larger one is 9 cm high. What **volume** of perfume will the larger one hold?



4. The two boxes below are mathematically similar and both have to be wrapped with decorative paper.



If it requires 3.27 m^2 of paper to cover the large box, calculate the **area** of paper needed to cover the smaller box.