

## EXERCISE 4D

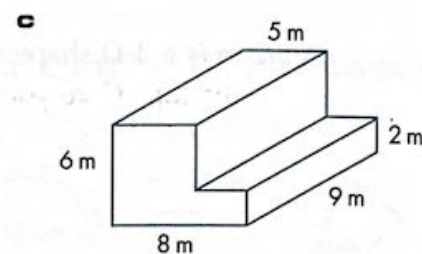
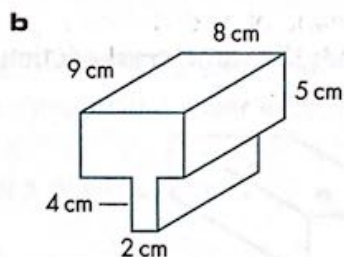
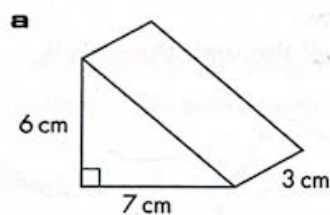


1 For each prism shown

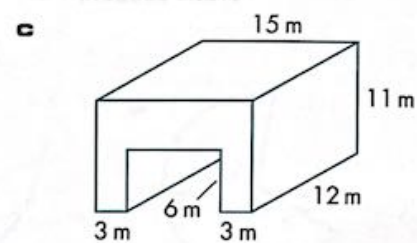
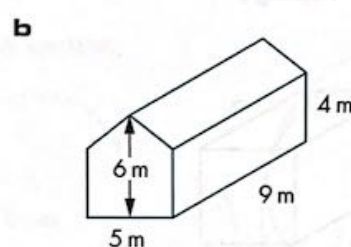
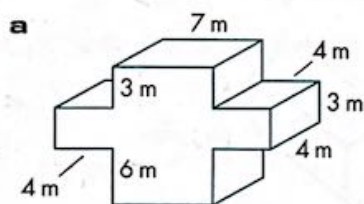
i sketch the cross-section

ii calculate the area of the cross-section

iii calculate the volume.

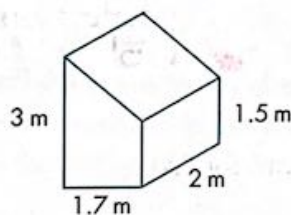


2 Calculate the volume of each of these prisms.



3 The uniform cross-section of a swimming pool is a trapezium with parallel sides, 1 m and 2.5 m, with a perpendicular distance of 30 m between them. The width of the pool is 10 m. How much water is in the pool when it is full? Give your answer in litres.

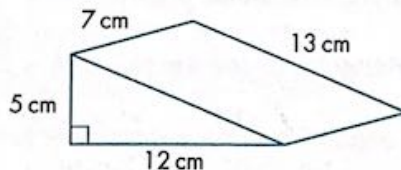
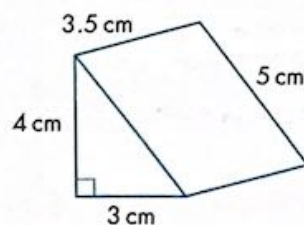
4 A lean-to is a prism. Calculate the volume of air inside the lean-to with the dimensions shown in the diagram. Give your answer in litres.



5 Each of these prisms has a regular cross-section in the shape of a right-angled triangle.

a Find the volume of each prism.

b Find the total surface area of each prism.



Homework for Friday 4 March

Q3, Q4, Q5 in small homework books