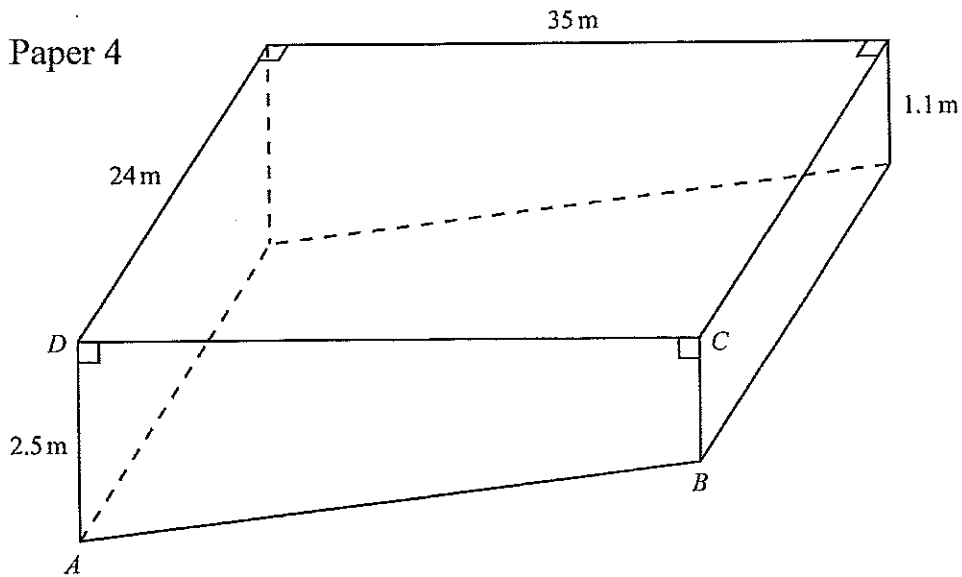


# IGCSE – Volume - 3

Oct 05 Paper 4

NOT TO  
SCALE



The diagram shows a swimming pool of length 35 m and width 24 m.  
A cross-section of the pool,  $ABCD$ , is a trapezium with  $AD = 2.5$  m and  $BC = 1.1$  m.

(a) Calculate

- (i) the area of the trapezium  $ABCD$ , [2]
- (ii) the volume of the pool, [2]
- (iii) the number of litres of water in the pool, when it is full. [1]

(b)  $AB = 35.03$  m correct to 2 decimal places.  
The sloping rectangular floor of the pool is painted.  
It costs \$2.25 to paint one square metre.

- (i) Calculate the cost of painting the floor of the pool. [2]
- (ii) Write your answer to part (b)(i) correct to the nearest hundred dollars. [1]

(c) (i) Calculate the volume of a cylinder, radius 12.5 cm and height 14 cm. [2]

- (ii) When the pool is emptied, the water flows through a cylindrical pipe of radius 12.5 cm.  
The water flows along this pipe at a rate of 14 centimetres per second.  
Calculate the time taken to empty the pool.  
Give your answer in days and hours, correct to the nearest hour. [4]