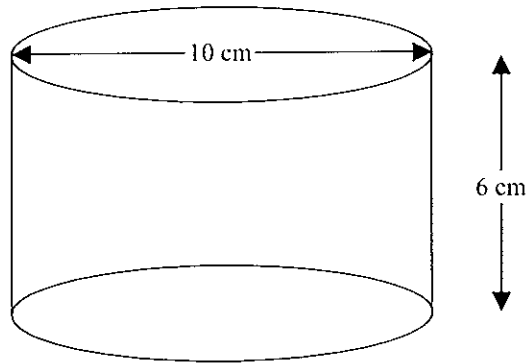# Year 10 Advanced - Topic Test - Measurement II

Name: _____   Time Allowed: 50 minutes

Answer each question on the separate paper provided
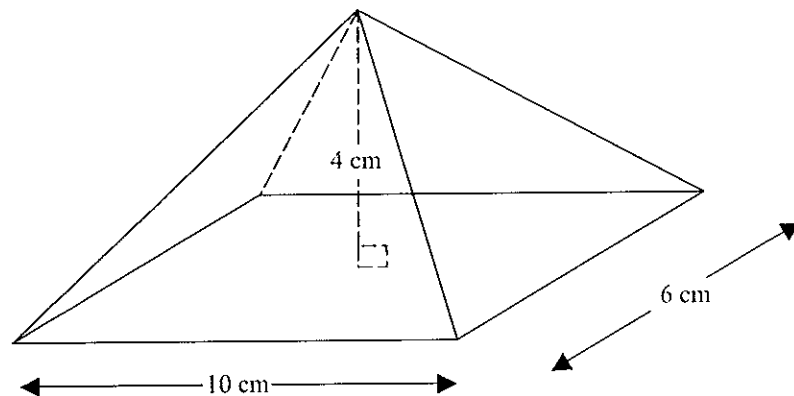
Question 1

Find the surface area of the following cylinder. Answer correct to 1 decimal place.

Question 2

Calculate the surface area of the following pyramid. Give your answer correct to 1 decimal place.
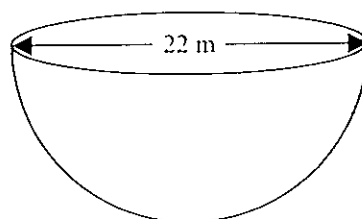

Question 3

Calculate the surface area of a cone with radius 8 cm and height 6 cm. Give your answer in terms of π.
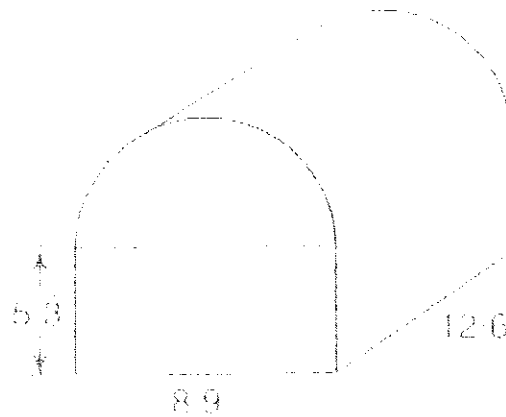
Question 4

Calculate the surface area of the following closed hemisphere correct to 2 decimal places.
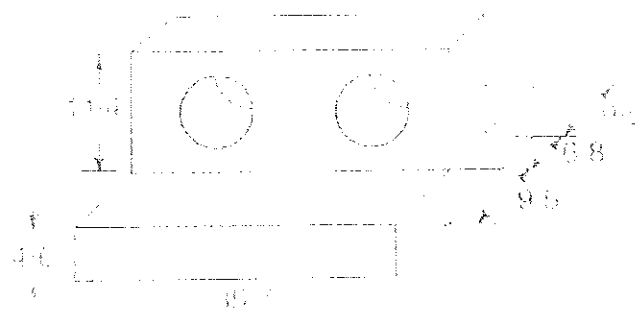
Question 5

Calculate the volume of the following prism, giving your answer correct to 1 decimal place. Measurements are in centimetres.
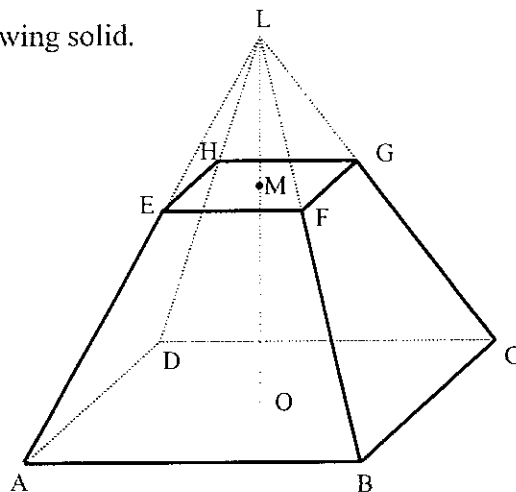

Question 6

Calculate the volume of the following solid. Measurements are in centimetres and your answer is to be given correct to 1 decimal place

Note. Both circular holes have a diameter of 8.5 cm.

Question 7
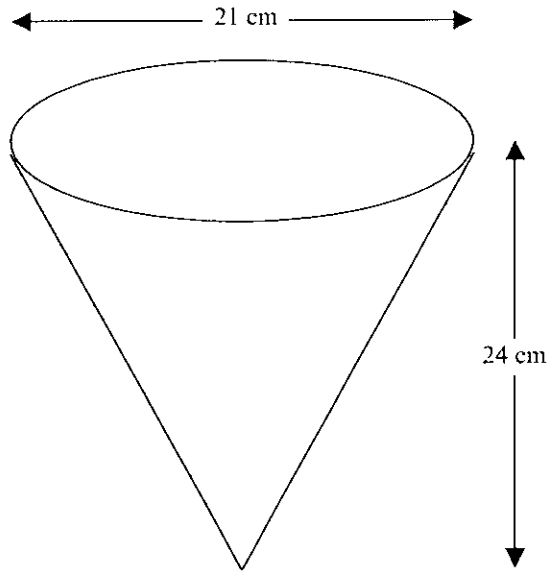
Calculate the volume of the following solid.

ABCD and EFGH are squares. AB = 20 cm, EF = 10 cm, MO = 15 cm, LM = 15 cm.

Question 8

Find the volume of the following cone. Leave your answer in π form.

21 cm

24 cm

Question 9

Calculate the volume of a concrete beam which has the cross section shown in the diagram. The beam is 10 m long. **Also** calculate the mass of this beam if 1 m^3 of concrete weighs 2.5 tonnes.

100 mm

300 mm

1300 mm

300 mm

100 mm