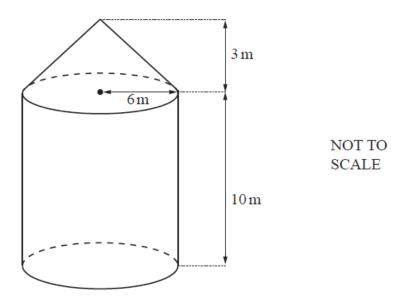


7.5 – Area and volume of compound shapes

Student name: _____ Score: _____

1.



The diagram shows a shape made from a cylinder and a cone.

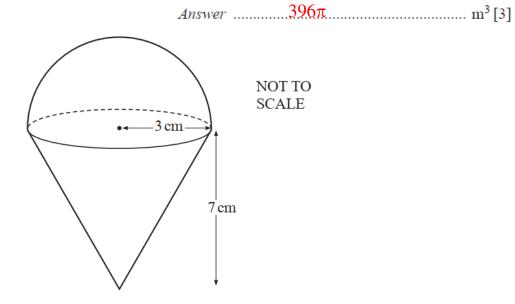
The cylinder and cone have a common radius of 6 m.

The height of the cylinder is 10 m and the height of the cone is 3 m.

Calculate the total volume of the shape.

Leave your answer as a multiple of π .

2.



The diagram shows a hemisphere joined to a cone.

The hemisphere has a radius of 3 cm.

The cone has a radius of 3 cm and a height of 7 cm.

The total volume of the shape is $k\pi$ cm³.

Find the value of k.

$$k =$$
 [3]



