

# Year Ten Advanced Homework Sheet 4 Term 2

## Conversion, TSA and Volume

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

1. Convert the following

a) 25 km to m

b) 240mm to m

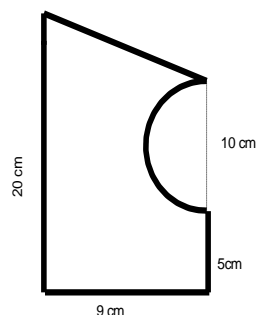
c) 3280 mm<sup>2</sup> to cm<sup>2</sup>

d) 12 km<sup>2</sup> to cm<sup>2</sup>

e) 235 m<sup>3</sup> to cm<sup>3</sup>

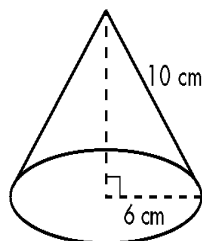
f) 5300000000 cm<sup>3</sup> to km<sup>3</sup>

2. Find the area of

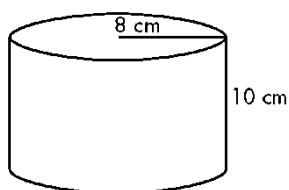


3. Find the **surface area** and **volume** of

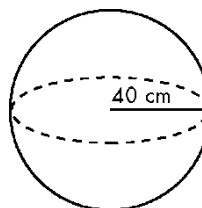
a)



b)



c)



4. A glass paperweight has the shape of a hemisphere. The radius of the hemisphere is 30mm. The flat surface is covered in felt.

a) Calculate the area of the part covered in felt.

b) Calculate the area of the curved surface of the paperweight.

c) Calculate the total surface area of the paperweight including the flat surface.