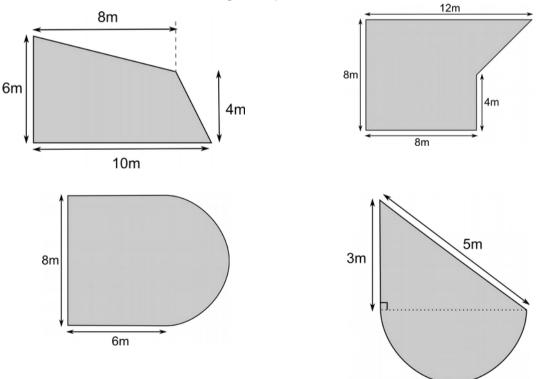
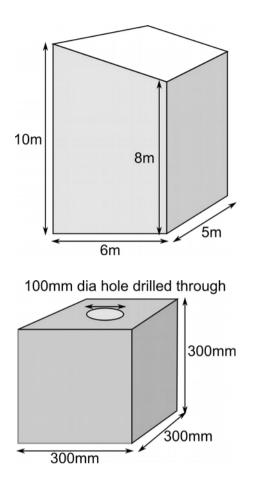
- 1. Write in standard form:
 - (a) the number of sheets of paper, each 0.10mm thick that make a pile 1.0cm high,
 - (b) the number of 1p coins, diameter 20mm, lined up edge to edge, that make a 1.00km line,
 - (c) the number of m² in a square kilometre,
 - (d) the number of litres in a cubic metre. $(1.0x10^2, 5.0x10^4, 1x10^6, 1x10^3)$
- 2. Calculate the area in m^2 of one surface of:
 - (a) an A5 sheet of paper, 210mm x 148.5mm,
 - (b) a dinner plate, diameter 26cm. $(3.12x10^{-2}m^2, 5.3x10^{-2}m^2)$
- 3. A room is 2.5m high and the floor size is 3.4m × 4.4m. Calculate:
 - (a) the volume of air that it contains.
 - (b) the total area of the ceiling and walls. (7: $37m^3$, $54m^2$)
- 4. Calculate the volume of a ball bearing, diameter 4.0mm,
 (a) in mm³, (b) in m³. (34mm³, 3.4x10⁻⁸m³)
- 5. Calculate the areas of the following floor plans:

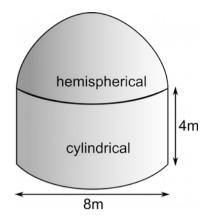


(hint: find diameter of semicircle)

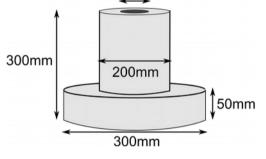
(44m², 72m², 73m², 12m²)

6. Calculate the volumes of the shapes below:





100mm dia hole drilled through completely



(270m³,335m³, 2.46x10⁻²m³, 9.03x10⁻³m³)