

Exercise 2015-8EQ-00005(1)

(1) Convert the following to the given units in brackets:

(a) 155 cm^2 (mm^2)

(b) $0,112 \text{ km}^2$ (cm^2)

(c) 28 cm^3 (mm^3)

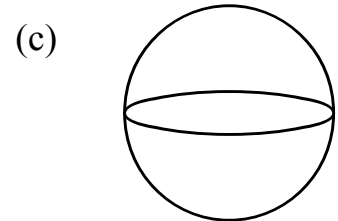
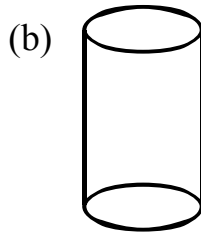
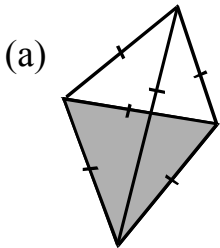
(d) $0,1 \text{ m}^3$ (cm^3)

(e) $2\,000 \text{ m}^2$ (km^2)

(f) 16 mm^3 (cm^3)

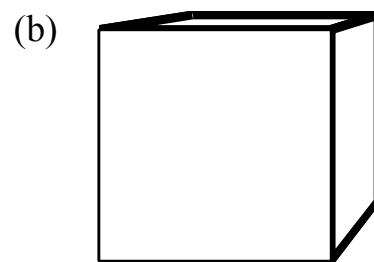
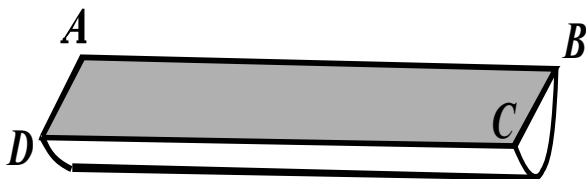
(2) Classify each of the following polyhedrons. Use the words in the word bank.

Cube	Cylinder	Cone
Sphere	Rectangular pyramid	Tetrahedron
Prism on a hexagonal base		



(3) Calculate the surface area of the following, correct to 2 dec:

(a) $AB = 14 \text{ cm}$ and $AD = 3 \text{ cm}$



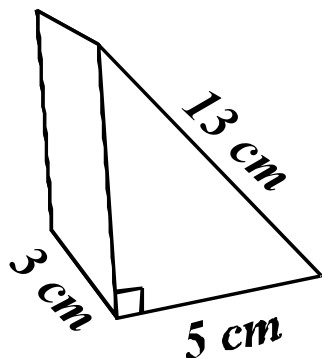
Above is a cube with
side lengths of 24,5 mm

(4) Describe the difference between a hexagon and a hexahedron.

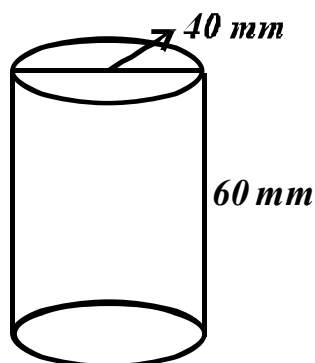
(5) Calculate the volume, correct to 1 dec, of each of the following.

Also give the volume in cm^3 .

(a)



(b)



(6) (a) Calculate the volume of the prism on the right in mm^3 .

(b) Calculate the volume of the prism on the right in cm^3 .

(c) Calculate the total surface area of the shaded part of the prism, in mm^2 .

(d) If the prism in the sketch is casted from metal, with $1 \text{ cm}^3 = 250 \text{ gram}$, calculate the Total weight of the prism in kg.

