Name: _____

Unit 2 – Measurement
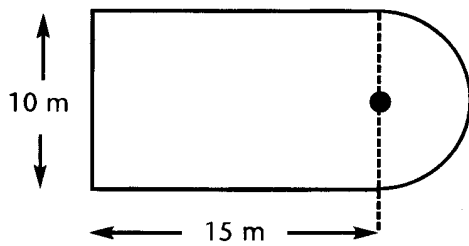## 2.12 – Compound Shapes & Solids

To determine the measurement of a Compound shape:
1. Divide it into parts.
2. Find the measure (lengths or areas) of each of these parts.
3. Add the measures of each part together.

Examples
1. The following diagram is an illustration of an entranceway to an office building.

    a. Find the total area of the entrance?

    b. If the area is to be tiled and the tiles cost $18.95 a square metre, what is the total cost of the tiling? Assume no waste of materials.

2. The following diagram is an illustration of a platform.
   a. The entire platform is to be painted, except for the bottom. Find the total area to be painted.
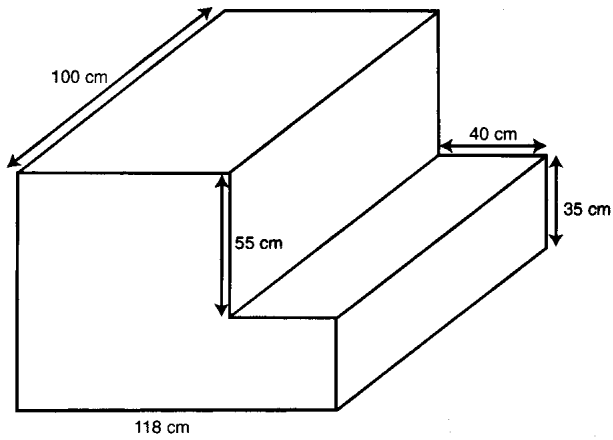
b. A can of spray paint covers 10 000 cm^2. How many cans of paint will you need to give the platform **TWO** coats of paint? Assume no waste of materials.
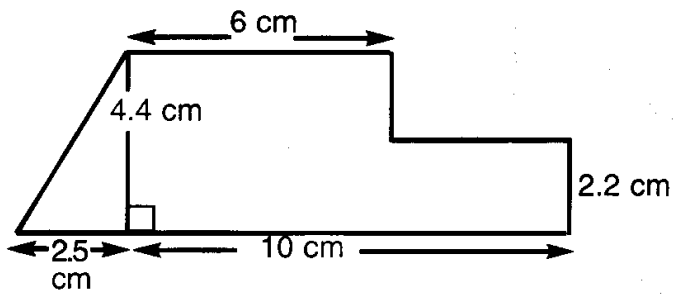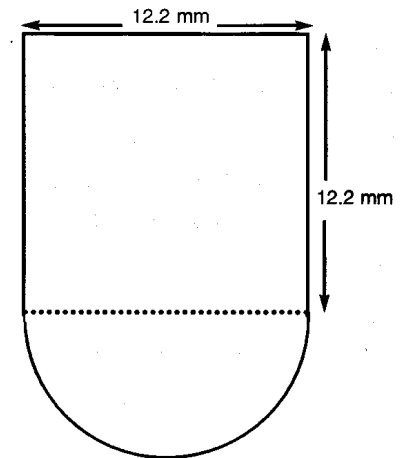
c. Determine the volume of the podium.

Assignment

1. Find the **AREA** of the following figures.

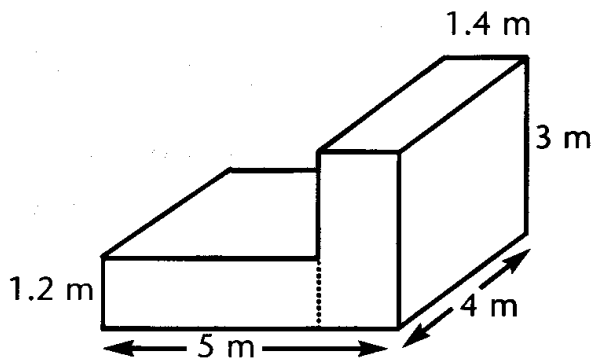a)

6 cm

4.4 cm

2.2 cm

2.5 cm

10 cm

b)

12.2 mm

12.2 mm

2. Find the **VOLUME** and **SURFACE AREA** of the following figures.

a)

1.4 m

3 m

1.2 m

5 m

4 m

b)

10 m

21 m

54 m

32 m
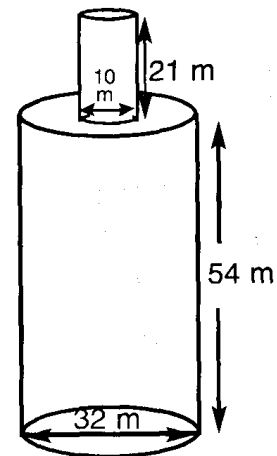
3. The following diagram is an illustration of a family room.

Fireplace

0.8 m 2.6 m

0.8 m

4.4 m

3.6 m

3.4 m
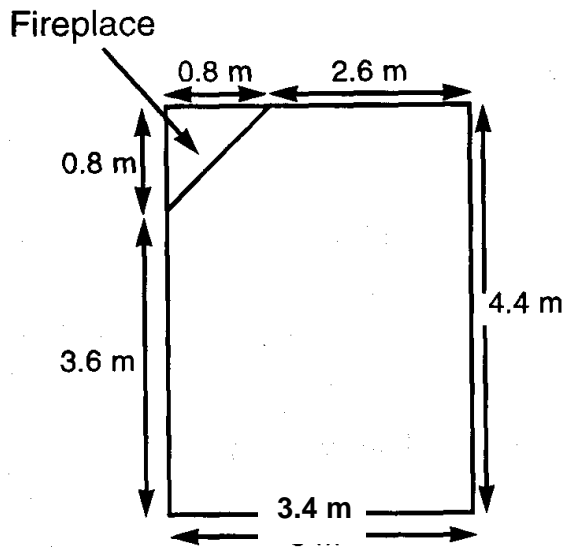
a) Find the total area of the room.

b) The entire family room, except the fireplace, is to be carpeted. How many square meters of carpet is needed?

c) If the carpet costs $14.98 per square metre, find the cost of carpeting the room.

4. The following diagram is an illustration of a podium.

40 cm

80 cm

50 cm

50 cm

110 cm
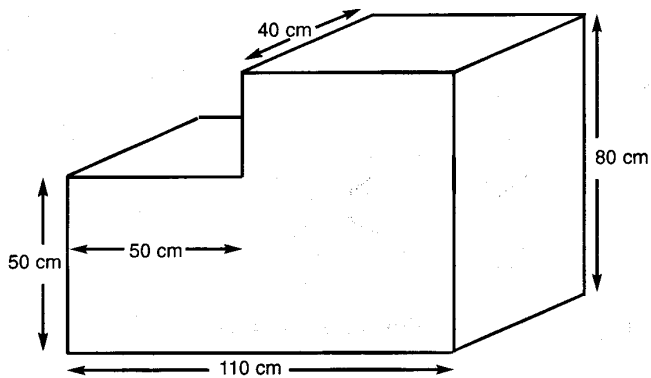
a) The entire podium, except the bottom was painted. Determine the area of the painted region?

b) If a spray can of paint covers 10 000 cm², how many can of spray paint must have been purchased to give the platform *two* coats of paint? Assume no waste of material.