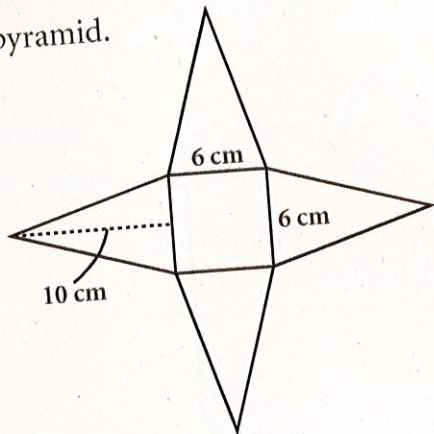
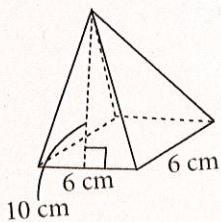


Unit Review

LESSON

4.1 1. Sketch a net of the square pyramid.



2. Which of the following is **not** the net of a cube?

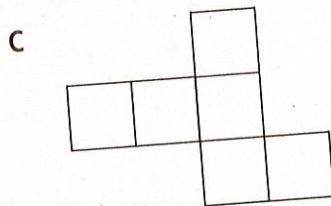
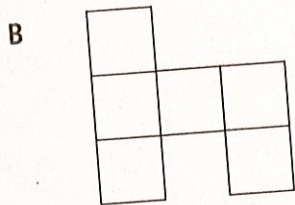
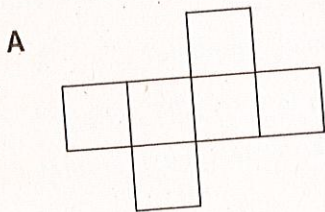
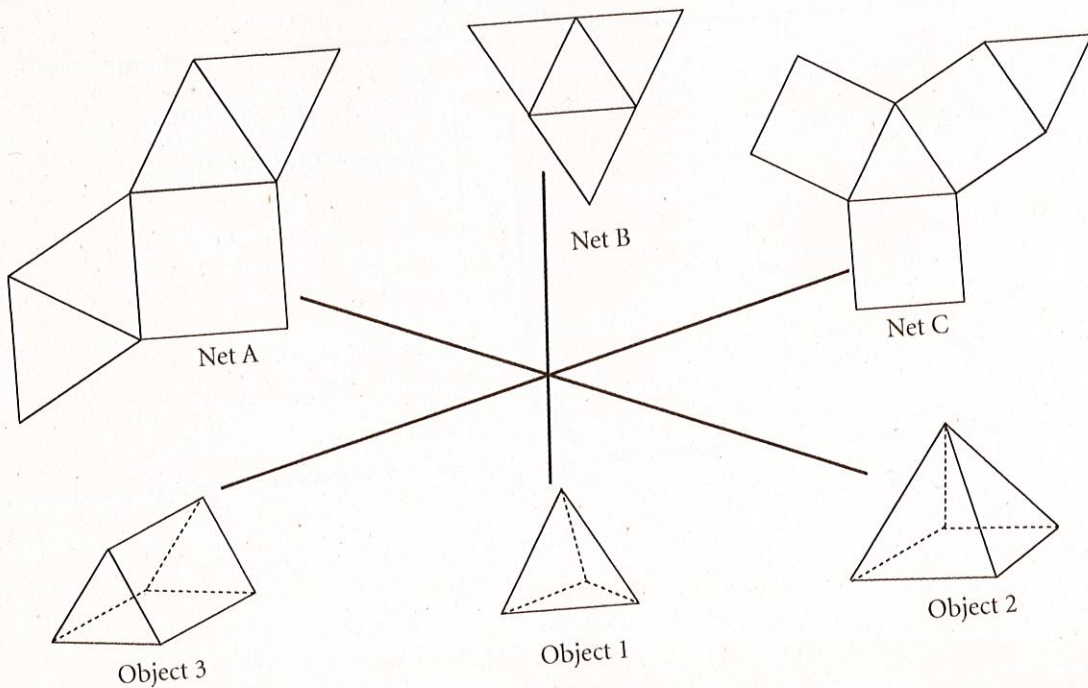


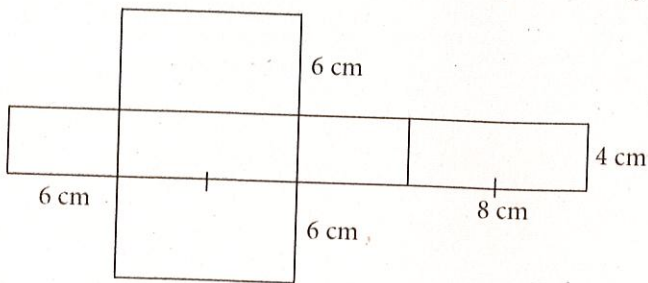
Figure **B** is not the net of a cube.

4.2 3. Match each net with the corresponding object.



LESSON

- 4.3 4. Calculate the area of the net of the right rectangular prism.



The area of the net is 208 cm².

- 4.3 5. A cube has a surface area of 384 cm².

4.5

- a) What is the length of one edge of the cube?

The area of one face of the cube is $384 \text{ cm}^2 \div 6 = 64 \text{ cm}^2$.

Thus, the length of one edge of the cube is 8 cm.

- b) What is the volume of the cube?

The volume of the cube is 512 cm³.

6. a) Sketch all possible right rectangular prisms with volume 8 cm³, where each edge length must be a whole number of centimetres. State the dimensions of each.

Record your results in this table.

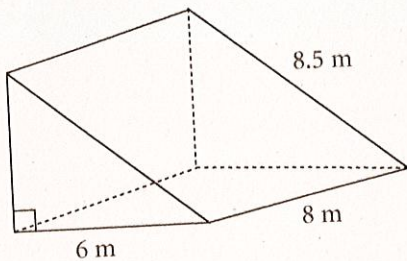
Length	Width	Height	Sketch
8	1	1	
4	2	1	
2	2	2	

- b) Calculate the surface area of each prism in the table.

34 cm², 28 cm², 24 cm²

LESSON

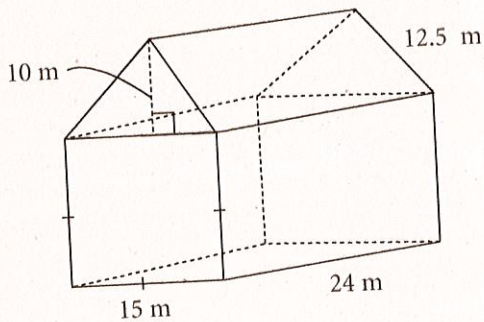
4.4 7. Calculate the surface area of the prism.



The surface area is 200 m².

4.5 8. Calculate the volume of the object.

4.6



The volume of the triangular prism is 1800 m³.

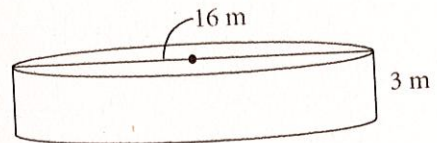
The volume of the rectangular prism is 5400 m³.

The total volume is 7200 m³.

4.7

4.8 9. A cylindrical water tank is open at the top.

a) Calculate the volume of the tank, to the nearest cubic metre.



The diameter is 16 m, so the radius is 8 m.

The volume of the tank is 603 m³, to the nearest cubic metre.

b) If the inside of the tank is to be painted, including the floor, what is the area to be painted, to the nearest square metre?

The area to be painted is 352 m², to the nearest square metre.