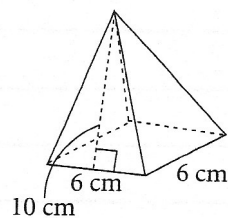


Unit Review

LESSON

- 4.1 **1.** Sketch a net of the square pyramid.



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

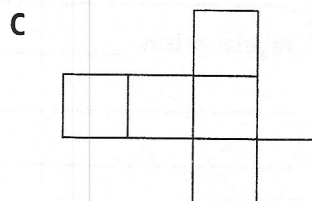
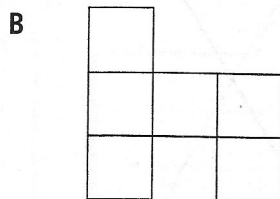
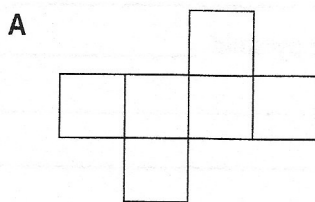
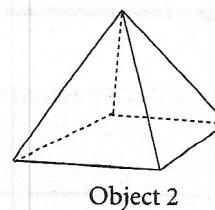
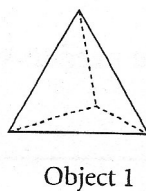
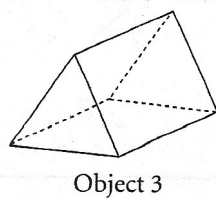
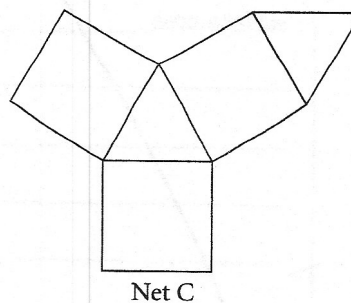
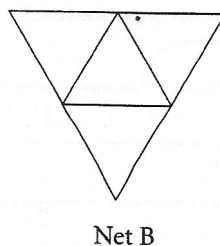
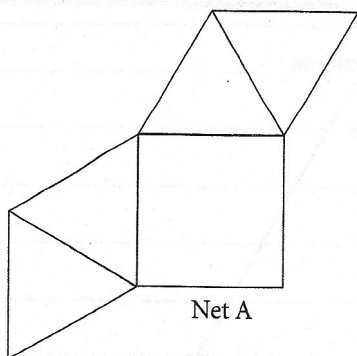


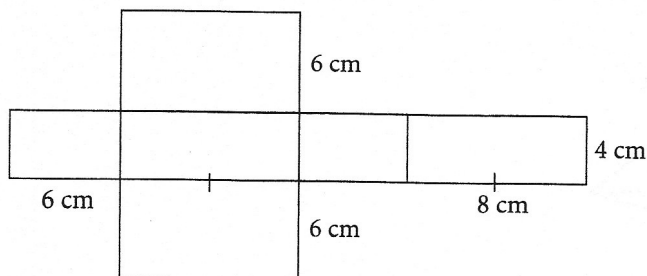
Figure _____ is not the net of a cube.

- 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 _____.

- 4.3 5. A cube has a surface area of 384 cm^2 .

4.5

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

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

Thus, the length of one edge of the cube is _____.

- b) What is the volume of the cube?

The volume of the cube is _____.

6. a) Sketch all possible right rectangular prisms with volume 8 cm^3 , where each edge length must be a whole number of centimetres. State the dimensions of each.

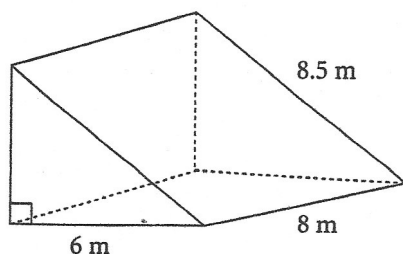
Record your results in this table.

| Length | Width | Height | Sketch |
|--------|-------|--------|--------|
| | | | |
| | | | |
| | | | |

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

_____, _____, _____

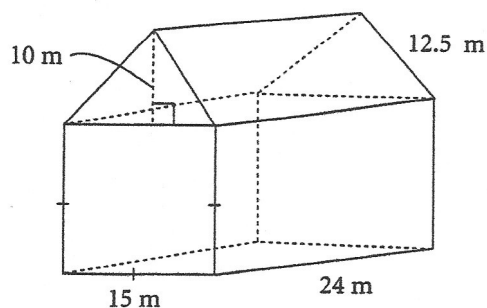
- 4.4 7. Calculate the surface area of the prism.



The surface area is _____.

- 4.5 8. Calculate the volume of the object.

4.6



The volume of the triangular prism is _____.

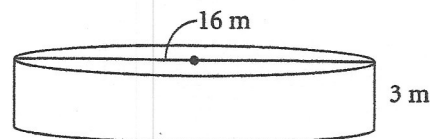
The volume of the rectangular prism is _____.

The total volume is _____.

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 _____, so the radius is _____.

The volume of the tank is _____, 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 _____, to the nearest square metre.