

Riviera International Academy

Assignment-2077

(Jestha 26, 2077, Monday)

Class: Eight

Subject- Mathematics

Area and Volume

b) Find the volume of the cuboids of the following measurements.

	Length	breadth	height
(i)	5 cm	4 cm	3 cm
(ii)	1.5 m	20 cm	50 cm
(iii)	42 cm	30 cm	2.5 m
(iv)	1.2 m	1 m	80 cm

c) Find the volume of the cylinders of the following measurements.

- (i) radius = 7 cm, height = 10 cm
- (ii) radius = 3.5 cm, height = 14 cm
- (iii) diameter = 21 cm, height = 20 cm
- (iv) diameter = 2.8 m, height = 3 m

3. a) The area of the base of a cubical box is 100 cm^2 , find the volume of the box.

b) If the volume of a cube is 3375 cm^3 , find its height and area of the base.

c) A cubical water tank is 1.2 m high. How much water does it hold?

4. a) The measurement of a rectangular vessel is $40 \text{ cm} \times 30 \text{ cm} \times 50 \text{ cm}$. How many litres of oil can be put inside it to fill it completely? ($1000 \text{ cm}^3 = 1 \text{ litre}$)

b) A rectangular water tank is $1.5 \text{ m} \times 1.4 \text{ m} \times 2 \text{ m}$. How many litres of water does it hold when it is completely filled.

5. a) A cuboid is 12 cm broad and 10 cm high. If its volume is 1800 cm^3 , find its length.

b) A rectangular box is 1 m long and 75 cm high. If the volume of the box is 375000 cm^3 , find the width of the box.

c) The area of the base of a rectangular tank is 2.4 m^2 . If the capacity of the tank is 3.6 m^3 , find the height of the tank.

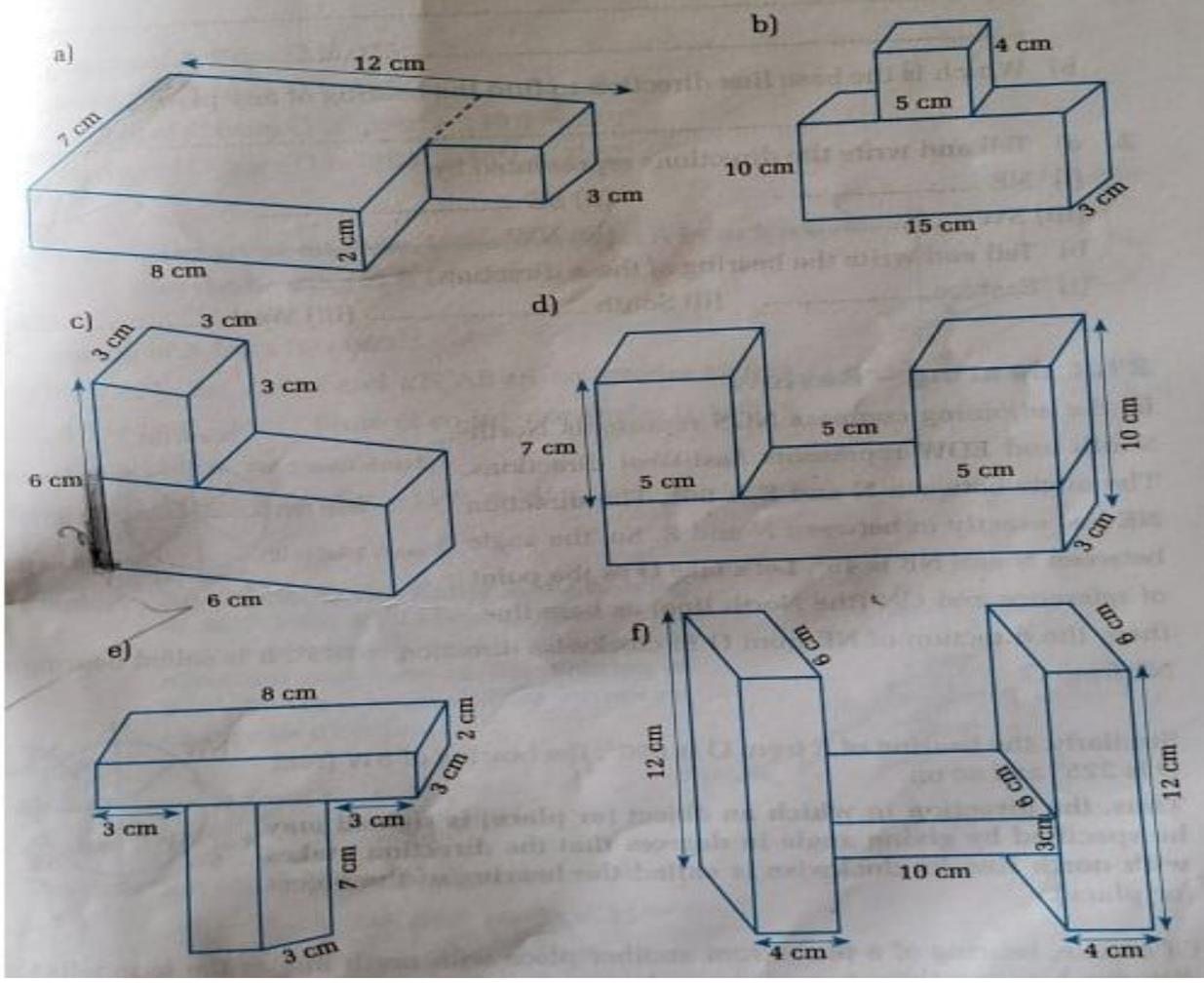
d) A rectangular vessel can hold 40 litres of milk when it is full. If the area of the base of the vessel is 2000 cm^2 , find the height of the vessel.

6. a) A carton is 60 cm long, 40 cm broad and 50 cm high. How many cubical boxes each of 20 cm long can be put inside the carton?

b) A cubical box is 75 cm high. How many rectangular packets each of $25 \text{ cm} \times 15 \text{ cm} \times 5 \text{ cm}$ are required to fill the box?

- c) A rectangular box is 5 cm long and 6 cm wide. How many cubical packets each of 1 cm^3 can be placed on the floor of its base? If 10 layers of such packets are placed on the floor, how many packets are there?
- d) A wall is 15 m long, 0.2 m wide and 2 m high. How many bricks of size $15 \text{ cm} \times 8 \text{ cm} \times 5 \text{ cm}$ each are required to construct the wall?

Find the volume of the following solids.



Source: Photo of Exercise is given above.
 Homework: Complete all from above.
 You are not allowed to use calculator.

Subject- Science

1. Why is a body having uniform velocity has zero acceleration?
2. Write the differences between distance and displacement.
3. Why does velocity keep changing in a circular path even its magnitude is same?
4. Prove that $v^2 = u^2 + 2as$, where the symbols have usual meanings.

Subject- English

1. Read the following text and do the activities that follow:

First of all, email is easy. All you need is the appropriate software on your computer. There are no stamps to stick and no trips in the freezing cold to postboxes. Secondly, email is fast. No matter where you're sending your message, whether it's to the next street or to the other side of the planet it takes only seconds to reach its destination. Thirdly, email is not only fast, it is also cheap. Unlike long distance telephone calls, you pay no more for messages sent from the US to London. Also email messages are easily stored. In addition to this, email environmentally friendly because being electronic, it saves natural resources such as paper. Last but not the least, email is practically universal Even my great grandmother IS using it those days.

A. Write T for true statements and IF' for false ones.

- a. When you send message by email, it takes hours to reach its destination.
- b. This text describes the advantages and disadvantages of email.
- c. Email messages are easily stored.
- d. According to the passage email is expensive means of communication.

B. Write words from the above text having the following meanings:

- a. a letter sent through electronic media
- b. an electronic device set in the computer
- c. a place to reach
- d. world wide

C. Answer the following questions:

- a. Why is email easy?
- b. What is the third advantage of email?
- c. Why is email environmental friendly?
- d. According to the passage, why is email universal?

The End.