

Class: Eight

Subject- Mathematics

Source: Photo of exercise is given below.

*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  $100 \text{ cm}^2$ , find the volume of the box.  
 b) If the volume of a cube is  $3375 \text{ cm}^3$ , 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  $1800 \text{ cm}^3$ , find its length.  
 b) A rectangular box is 1 m long and 75 cm high. If the volume of the box is  $375000 \text{ cm}^3$ , find the width of the box.  
 c) The area of the base of a rectangular tank is  $2.4 \text{ m}^2$ . If the capacity of the tank is  $3.6 \text{ m}^3$ , 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  $2000 \text{ cm}^2$ , find the height of the vessel.

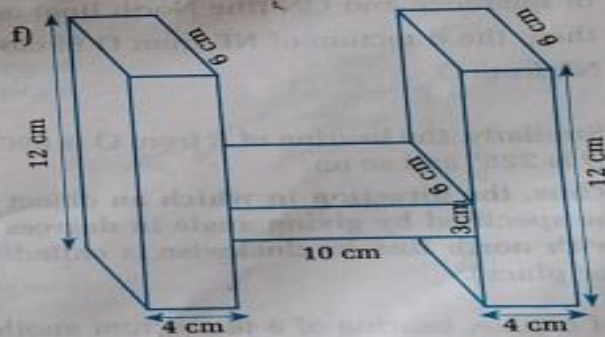
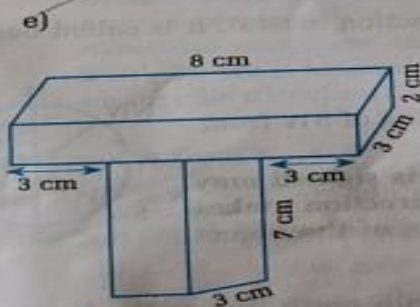
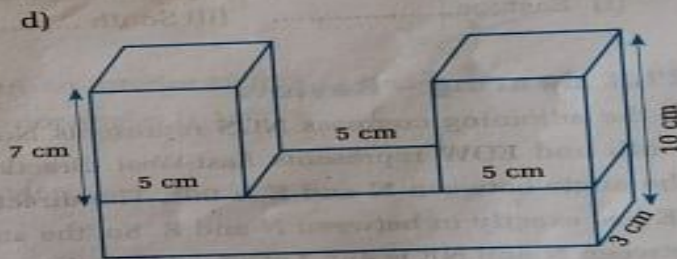
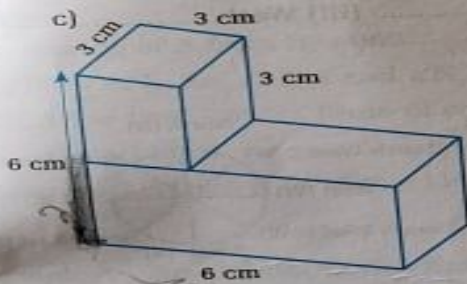
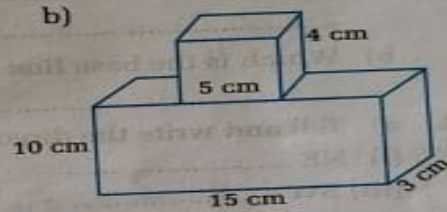
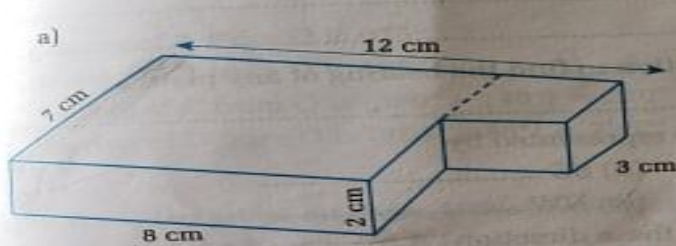
6. a) A carton is 60 cm long, 40 cm broad and 50 cm high. How many cubical boxes each of 20 cm long can be put inside the carton?  
 b) A cubical box is 75 cm high. How many rectangular packets each of  $25 \text{ cm} \times 15 \text{ cm} \times 5 \text{ cm}$  are required to fill the box?

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c) A rectangular box is 5 cm long and 6 cm wide. How many cubical packets each of  $1 \text{ cm}^3$  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.



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Homework: Do the work as per the instruction given in the class.  
You are not allowed to use calculator.

### Subject- Science

1. What is uniform velocity? What will be acceleration in uniform velocity?
2. Prove that  $v^2 = u^2 + 2as$ .
3. A stone is dropped from a 20m height. What is the final velocity if it touches the ground at 5s? Use  $g = 10\text{m/s}^2$ .
4. A stone is thrown vertically upward with velocity 25 m/s. How long does it take to reach the maximum height? Also calculate the height. Use  $g = 10\text{m/s}^2$ .

## Subject- English

### **1. Study the given passage carefully and do the activities that follow:**

Once upon a time, there lived a poor man in Gaurigaun. His name was Dhan Bahadur. He was all alone in this world. He had neither relatives nor friends in this universe. He used to beg for his living. Whatever food he got as alms, he used to eat.

One day, a generous person gave him 5 liters of milk and told him to do better for his livelihood from it. The poor man brought the milk home and kept it beside him. Then, he started to make a plan. He would make curd and sell it in the market. Then, he would earn good money and start a business.

After some time, he went to sleep on his stone-made bed and fell asleep. He began to see a beautiful dream. He was no longer a poor beggar. He wore beautiful clothes and expensive jewels. He was the owner of a big dairy, and he himself was its manager.

#### **A. Read the passage and put the sentences in the correct order:**

- a. One day, a kind person gave him 5 litres of milk.
- b. Dhan Bahadur lived in Gaurigaun.
- c. Then, he started to make a plan.
- d. He used to beg for his living.

#### **B. Read the passage and find words that are opposite in meaning:**

- a. wealthy
- b. ugly
- c. stingy
- d. cheap

### **1. Complete the following dialogue with the help of the expressions given in the box:**

A: Hi Prakash! How \_\_\_\_\_ ?

B: Hi Mina! I am all right \_\_\_\_\_ ?

A: I am fine. Which sports \_\_\_\_\_ ?

B: I like \_\_\_\_\_ the most.

A: Oh I like football.

B: I \_\_\_\_\_ too.

A: Ok. I am in a hurry. Bye.

i.	And you
ii.	are you
iii.	do you like most
iv.	love it
v.	basketball

**The End.**