



# PHYSICS

## BOOKS - ICSE

# PHYSICAL QUANTITIES AND MEASUREMENT

### Solved Examples

1. A box is of dimensions 2.4 m x 1.0 m x 75 cm.

Find the volume of the box.



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2. Calculate the volume of a book which is 24 cm in length, 15 cm in breadth and 1 cm in height, in (a)  $cm^3$  (b)  $m^3$  .



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3. A measuring cylinder contains water to a level of 22 mL. The water level rises to 30 mL when a piece of copper is completely

immersed in it. Find the volume of copper piece



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4. The diameter of a circular park is 30 m. Find its surface area.

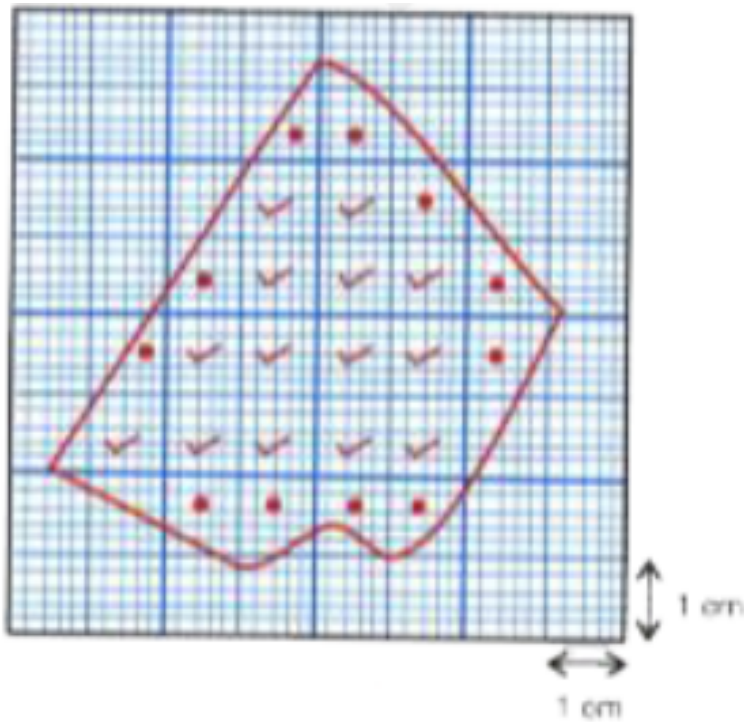


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5. The boundary line of an irregular lamina, on a graph paper is shown in Fig. Find the

approximate area of the lamina. In Fig. , the  
number of complete squares = 14

The number of squares more than half = 11



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6. A piece of iron has a volume of  $25\text{cm}^3$  and mass 195 g. Find the density of iron in  $\text{gcm}^{-3}$



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7. A piece of iron has a volume of  $25\text{cm}^3$  and mass 195 g. Find the density of iron in  $\text{kgm}^{-3}$



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8. The density of silver is  $10\text{gcm}^{-3}$ . Find the mass of a silver block of volume  $200\text{cm}^3$ .



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9. The mass of a wooden block is 56 g. If the density of wood is  $0.8\text{gcm}^{-3}$ , find the volume of block.



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**10.** The mass of 1 litre of water is 1 kg. Find the density of water in  $gcm^{-3}$



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**11.** The mass of 1 litre of water is 1 kg. Find the density of water in  $kgm^{-3}$



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**12.** The length, breadth and height of a room are 8 m, 5 m and 3 m respectively. If density of air is  $1.29\text{kgm}^{-3}$ , find the mass of air in the room.



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**13.** A copper piece of mass 88 g when immersed completely into water contained in a measuring cylinder, raises the level of water



from 15 mL to 25 mL. Find the volume of copper piece



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14. A copper piece of mass 88 g when immersed completely into water contained in a measuring cylinder, raises the level of water from 15 mL to 25 mL. Find the density of copper.



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15. Convert the speeds in  $ms^{-1}$

$$3km\min^{-1}$$



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16. Convert the speeds in  $ms^{-1}$

$$36kmh^{-1}$$



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17. A car travels a distance of 200 km in 3 h.

Find the speed of car in  $\text{ms}^{-1}$



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18. A cyclist is moving with a speed of  $20\text{kmh}^{-1}$ . How long will he take to travel a distance of 1.5 km ?



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**19.** A car travels for 20 min with a constant speed of  $54 \text{ km h}^{-1}$ . Find the distance travelled by the car.



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**20.** A body A travels a distance 600 m in 1 min while body B travels a distance 1 km in 20 s. Which body moves faster? Give reason.



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21. A piece of steel has a volume of  $10\text{cm}^3$  and a mass of 80 g. What is its density in:

$\text{g} / \text{cm}^3$



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22. A piece of steel has a volume of  $10\text{cm}^3$  and a mass of 80 g. What is its density in:

$\text{kg} / \text{m}^3$



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23. What is the mass of  $5m^3$  of cement of density  $2000kg/m^3$  ?



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24. Mass of a stone is 50g. When it is immersed in water the level rises from 45mL to 75mL. Determine the density of the stone.



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**25.** A block is 8 cm long, 2 cm wide, and 3 cm high and has a mass 375 g.

What is its density?



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**26.** A block is 8 cm long, 2 cm wide, and 3 cm high and has a mass 375 g.

Express density in  $kg/m^3$



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27. A block is 8 cm long, 2 cm wide, and 3 cm high and has a mass 375 g.

Compare the density of the block with the density of different substances in Table and find out what material the block is made of.



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28. What is the mass of a piece of wood that has a density of  $0.85\text{g}/\text{cm}^3$  and a volume of  $29.4\text{cm}^3$ ?



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**29.** An empty bottle weighs 30 g. It weighs 54 g when filled with kerosene. If the volume of the bottle is 30 mL, find the density of kerosene in  $g/cm^3$  and in  $kg/m^3$



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**30.** A boy starts from home, goes to a shop, which is 2 km away, buys things, and comes

back in an hour. What is the speed with which he travels?



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**31.** A girl runs along a circular track of radius 5 m starting from point A. What will be the distance travelled by her and speed if she comes back to the initial position in 300 s



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**32.** A girl runs along a circular track of radius 5 m starting from point A. What will be the distance travelled by her and speed if she stops halfway at B in 400 s?



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**33.** A Volvo bus covers 240 km in three hours and a car covers 250 km in five hours. Which is faster?



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**34.** Ria covered a distance of 600 m in two minutes whereas Lia covered the same distance in three minutes. Who is faster?



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**35.** If a bus travels a distance of 30 km in 45 minutes. What will be its speed in:

*km / min*



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**36.** If a bus travels a distance of 30 km in 45 minutes. What will be its speed in:

*km / hr*



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**37.** If a bus travels a distance of 30 km in 45 minutes. What will be its speed in:

*km / s*



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**38.** If a bus travels a distance of 30 km in 45 minutes. What will be its speed in:

$m / s$



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## Test Yourself True Or False

**1.** The S.I. unit of volume is litre. True/False.



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2. A measuring beaker of capacity 200 mL can measure only the volume of 200 mL of a liquid.

True.False.



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3.  $cm^2$  is a smaller unit of area than  $m^2$ .



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4. Write true or false Equal volumes of two different substances have equal masses.



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5. The S.I. unit of density is .....



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6.  $1\text{gcm}^{-3} = 1000\text{kgm}^{-3}$



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7. The density of water is maximum at  $4^{\circ}C$ .



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8. The speed  $5ms^{-1}$  is less than  $25kmh^{-1}$



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9. The S.I. unit of speed is  $ms^{-1}$



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## Test Yourself Fill In The Blanks

1.  $1m^3 = \dots\dots\dots cm^3$



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2. The volume of an irregular solid is determined by the method of \_\_\_\_\_ of a liquid.



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3. Volume of a cube =.....



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4. The area of an irregular lamina is measured by using a .....



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5. Mass = density x .....





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**6.** The S.I. unit of density is .....



**Watch Video Solution**

**7.**  $1\text{gcm}^{-3} = \dots\dots\dots \text{kgm}^{-3}$



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**8.**  $36\text{kmh}^{-1} = \dots\dots\dots \text{ms}^{-1}$  .





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9. Distance travelled  $d = \dots\dots\dots$  x time  $t$ .



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## Test Yourself Match The Column

1. Match the following

### Column A

### Column B

- |                          |                        |
|--------------------------|------------------------|
| (a) Volume of a liquid   | (i) $\text{kg m}^{-3}$ |
| (b) Area of a leaf       | (ii) $\text{m}^3$      |
| (c) S.I. unit of volume  | (iii) graph paper      |
| (d) S.I. unit of density | (iv) $\text{m s}^{-1}$ |
| (e) S.I. unit of speed   | (v) measuring cylinder |



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Test Yourself Select The Correct

1. One litre is equal to :

A.  $1\text{cm}^3$

B.  $1\text{m}^3$

C.  $10^{-3}\text{cm}^3$

D.  $10^{-3}\text{m}^3$

**Answer: D**



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2. A metallic piece displaces water of volume 15 mL. The volume of piece is :

A.  $15\text{cm}^3$

B.  $15\text{m}^3$

C.  $15 \times 10^3\text{cm}^{-3}$

D.  $15 \times 10^3\text{cm}^3$

**Answer: A**



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**3.** A piece of paper of dimensions 1.5 m x 20 cm has area :

A.  $30m^2$

B.  $300cm^2$

C.  $0.3m^2$

D.  $3000m^3$



**Answer: C**



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**4. The correct relation is :**

A.  $d = M \times V$

B.  $M = d \times V$

C.  $V = d \times M$

D.  $d = M + V$

**Answer: B**



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5. The density of alcohol is  $0.8gcm^{-3}$  . In S.I. unit, it will be :

A.  $0.8kgm^{-3}$

B.  $0.0008kgm^{-3}$

C.  $800kgm^{-3}$

D.  $8 \times 10^3kgm^{-3}$

**Answer: C**



6. The density of aluminium is  $2.7\text{gcm}^{-3}$  and of brass is  $84\text{gcm}^{-3}$ . For the same mass, the volume of :

- A. both will be same
- B. aluminium will be less than that of brass
- C. aluminium will be more than that of  
brass
- D. nothing can be said.

**Answer: C**



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7. A block of wood of density  $0.8gcm^{-3}$  has a volume of  $60cm^3$ . The mass of block will be :

A. 60.8 g

B. 75g

C. 48g

D. 0.013 g

**Answer: C**



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**8. The correct relation for speed is :**

A. Speed = distance x time

B. Speed = distance/time

C. Speed = time/distance

D. Speed = 1/(distance x time)

**Answer: B**



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9. A boy travels a distance 150 m in 1 minute.

His speed is :

A.  $150ms^{-1}$

B.  $2.5ms^{-1}$

C.  $25ms^{-1}$

D.  $9ms^{-1}$

**Answer: B**



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## Test Yourself Short Long Answer Questions

1. Define the term volume of an object.



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2. State and define the S.I. unit of volume. Draw their neat diagrams.



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**3.** State two smaller units of volume. How are they related to the S.I. unit ?



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**4.** How will you determine the volume of a cuboid ? Write the formula you will use.



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5. Name two devices which are used to measure the volume of an object.



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6. How can you determine the volume of an irregular solid (say a piece of brass) ? Describe in steps with neat diagrams.



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7. You are required to take out 200 mL of milk from a bucket full of milk. How will you do it?



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8. Describe the method in steps to find the area of an irregular lamina using a graph paper.



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9. Define the term density of a substance.



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10. State the S.I. and C.G.S. units of density.

How are they related ?



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11. 'The density of brass is  $8.4 \text{ g cm}^{-3}$ '. What do you mean by the statement ?



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**12.** Arrange the following substances in order of their increasing density :

(a) iron (b) cork (c) brass (d) water (e) mercury.



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**13.** How does the density of water change when : it is heated from  $0^{\circ}C$  to  $4^{\circ}C$



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14. How does the density of water change when : it is heated from  $4^{\circ}C$  to  $10^{\circ}C$  ?



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15. Write the density of water at  $4^{\circ}C$ .



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16. Explain the meaning of the term speed.





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17. Write the S.I. unit of speed.



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18. A car travels with a speed  $12ms^{-1}$ , while a scooter travels with a speed  $36kmh^{-1}$  Which of the two travels faster?



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## Test Yourself Numericals

1. The length, breadth and height of a water tank are 5 m, 2.5 m and 1.25 m respectively. Calculate the capacity of the water tank in  $m^3$



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2. The length, breadth and height of a water tank are 5 m, 2.5 m and 1.25 m respectively. Calculate the capacity of the water tank in litre



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3. A solid silver piece is immersed in water contained in a measuring cylinder. The level of water rises from 50 mL to 62 mL. Find the volume of silver piece.



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4. Find the volume of a liquid present in a dish of dimensions 10 cm x 10 cm x 5 cm.



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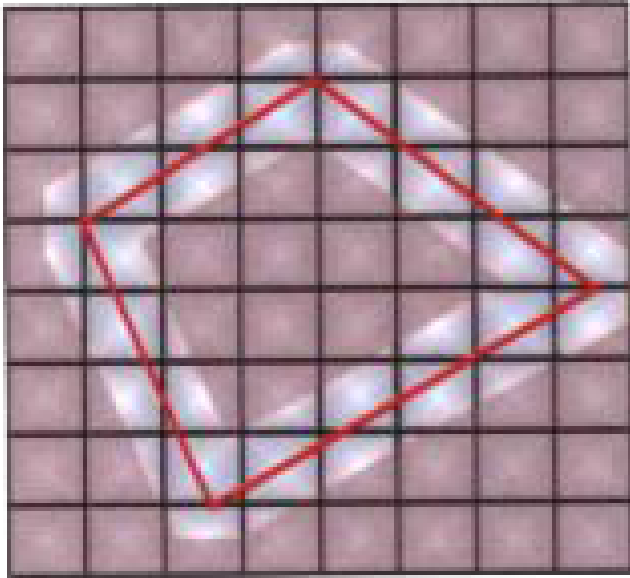
5. A rectangular field is of length 60 m and breadth 35 m. Find the area of the field.



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6. Find the approximate area of an irregular lamina of which boundary line is drawn on the

graph paper shown in Fig.



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7. A piece of brass of volume  $30\text{cm}^3$  has a mass of 252 g. Find the density of brass in  $\text{gcm}^{-3}$



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8. A piece of brass of volume  $30\text{cm}^3$  has a mass of 252 g. Find the density of brass in  $\text{kgm}^{-3}$



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9. The mass of an iron ball is 312 g. The density of iron is  $7.8\text{gcm}^{-3}$ . Find the volume of the ball.



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10. A cork has a volume  $25\text{cm}^3$  . The density of cork is  $0.25\text{gcm}^{-3}$  . Find the mass of the cork.



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11. The mass of 5 litre of water is 5 kg. Find the density of water in  $\text{g cm}^{-3}$



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**12.** A cubical tank of side 1 m is filled with 800 kg of a liquid. Find the volume of tank



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**13.** A cubical tank of side 1 m is filled with 800 kg of a liquid. Find the density of liquid in  $\text{kg m}^{-3}$



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**14.** A block of iron has dimensions 2 m x 0.5 m x 0.25 m. The density of iron is  $7.8\text{gcm}^{-3}$ .

Find the mass of block.



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**15.** The mass of a lead piece is 115 g. When it is immersed into a measuring cylinder, the water level rises from 20 mL mark to 30 mL mark.

Find the volume of the lead piece



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**16.** The mass of a lead piece is 115 g. When it is immersed into a measuring cylinder, the water level rises from 20 mL mark to 30 mL mark. Find the density of the lead in  $\text{kg m}^{-3}$



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**17.** The density of copper is  $8.9\text{gcm}^{-3}$ . What will be its density in  $\text{kg m}^{-3}$



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**18.** A car travels a distance of 15 km in 20 minute. Find the speed of the car in  $kmh^{-1}$



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**19.** A car travels a distance of 15 km in 20 minute. Find the speed of the car in  $ms^{-1}$



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20. How long a train will take to travel a distance of 200 km with a speed of  $60 \text{ km h}^{-1}$  ?



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21. A boy travels with a speed of  $10 \text{ ms}^{-1}$  for 30 minute. How much distance does he travel ?



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22. Express  $36\text{kmh}^{-1}$  in  $\text{ms}^{-1}$ .



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23. Express  $15\text{ms}^{-1}$  in  $\text{kmh}^{-1}$



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Questions

1. Choose the correct option to fill in the blank  
Physical quantities are quantities that .....  
(cannot be measured/ can be measured)



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2. Choose the correct option to fill in the blank  
Area is a ..... (fundamental / derived  
quantity)



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3. Choose the correct option to fill in the blank

SI unit of volume is ..... ( $m^2 / m^3$ )



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4. Choose the correct option to fill in the blank

$1m^3$  is ..... ( $100mL / 1000000mL$ )



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5. Write T for True and F for the False. Correct the false statement

The amount of surface covered by a closed shape is called area.



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6. Write T for True and F for the False. Correct the false statement

The area of a piece of paper is measured in  $km^2$





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7. Write T for True and F for the False. Correct the false statement

The formula for calculating area is length  $\times$  breadth for rectangle.



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8. Write T for True and F for the False. Correct the false statement

We cannot find the area of irregular surfaces.



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**9.** Choose the correct option to fill in the blank  
If more mass is packed into the same volume.  
Then density is ..... (more/less)



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**10.** Choose the correct option to fill in the  
blank

The density of a substance ..... (varies/remains the same) with change in size



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11. Choose the correct option to fill in the blank

$$1g/cm^3 = \left( \frac{1}{1,000} / 1000 \right) kg/m^3$$



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**12.** Choose the correct option to fill in the blank

the density of solids is generally .....  
(higher/lower) than density of liquids.



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## Exercise Section I A Name The Following

**1.** Name

Any four fundamental physical quantities.



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**2. Name any two derived physical quantities**



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**3. Name**

Mass per unit volume



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#### 4. Name

Si unit for volume



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#### 5. Name

Distance travelled in unit time



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**Exercise Section I B Choose The Correct Option**

1. A fundamental physical quantity

A. Speed

B. time

C. area

D. volume

**Answer:**



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2. 1L is

A.  $1000\text{cm}^3$

B.  $1000\text{cm}^2$

C.  $1000\text{mL}$

D.  $100\text{cm}^2$

**Answer:**



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**3.** The volume of a stone can be measured by

A. using the appropriate formula

B. dipping into a measuring cylinder.

C. using a graph paper and counting the squares.

D. can't say

**Answer:**



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4. If the same mass is packed into a lesser volume its density becomes:

A. Higher

B. lower

C. same as before

D. can't say

**Answer:**



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**5. SI unit of speed**

A.  $km / h$

B.  $m / s$

C.  $km / \text{min}$

D.  $cm / s$

**Answer:**



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**Exercise Section I C Write T For True And F For False Correct The False Statements**



1. Physics is a subject that deals with quantities that cannot be measured.



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2. Only solids have volume.



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3. One hectometre is  $10,000m^2$



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4. Each substance has a unique density associated with it



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5. The object that covers a given distance in a lesser time has more speed.



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## Exercise Section I D Choose The Correct Option To Fill In The Blank

1. When you measure a liquid the reading should be taken at the bottom of the .... (concave/convex) meniscus.



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2. Volume of a cuboid is ?



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3. The SI unit of density is :



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4. Choose the correct option to fill in the blank

$$1g/cm^3 = \left( \frac{1}{1,000} / 1000 \right) kg/m^3$$



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5. If the distance covered in unit time is more,  
then the speed will be ..... (greater/lesser)



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## Exercise Section II E Give Reasons For The Following

1. Why is area a derived quantity?



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2. Equal volumes of sand and cotton weigh differently. TRUE or FALSE ?



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3. When you put a steel pin in water it sinks, but a ship made of steel floats. WHY ?



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4. If you take kerosene and water in a test tube, kerosene floats on water.



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# Exercise Section II F Distinguish Between The Following

1. what are Fundamental and derived quantities ?



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2. Capacity and volume



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3. Give relation between  $mL$  and  $cm^3$



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4. Define Area and volume



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5. what is the relation between Mass and density.



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6. What is the relation between Speed and distance.



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## Exercise Section II G Short Answer Questions

1. What do you mean by volume? In what units do you express volume of water in a swimming pool?



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2. What do you mean by area? What is the relationship between  $cm^2$  and  $m^2$ ?



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3. How can you decrease the average density of an object?



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4. Define speed. How do you convert  $1\text{ km/h}$  to  $\text{m/s}$ .



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## Exercise Section II H Long Answer Questions

1. What do you mean by physical quantities?

Explain fundamental and derived quantities

with two examples of each



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2. Explain how to find the density of an irregular solid, say a stone.



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3. Describe how to determine the density of a liquid.



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**Exercise Section II | Numerical Questions**

1. If  $103\text{cm}^3$  of aluminium has a mass of 0.280 kg. Find its density in

$\text{g}/\text{cm}^3$



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2. If  $103\text{cm}^3$  of aluminium has a mass of 0.280 kg. Find its density in

$\text{kg}/\text{m}^3$



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3. If the density of wood is  $800\text{kg}/\text{m}^3$  and volume is  $0.3\text{m}^3$  find its mass.



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4. The density of gold is  $19\text{g}/\text{cm}^3$  find the volume of

38 g



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5. The density of gold is  $19g/cm^3$  find the volume of  
0.095 kg



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6. An elephant covers 120 km in 3 hours and a tiger covers 130 km in 2 hours. Which is faster?  
What is its speed?



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7. Bike A covers a distance of 145 km in 1.5 h.

Bike B covers a distance of 200 km in 2 h.

Which of the two bikes is faster?



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8. Convert

$2m^3$  into  $cm^3$



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## 9. Convert

$5000\text{cm}^3$  to  $\text{m}^3$



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## 10. Convert

$23\text{m}^3$  to  $\text{cm}^2$



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## 11. Convert

$4000\text{cm}^2$  to  $\text{m}^2$



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## 12. Convert

$7.8\text{g} / \text{cm}^3$  to  $\text{kg} / \text{m}^3$



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**13. Convert**

$920\text{kg} / \text{m}^3$  to  $\text{g} / \text{cm}^3$



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**14. Convert  $54\text{kmh}^{-1}$  into  $\text{ms}^{-1}$ .**



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**15. Convert**

$20\text{m} / \text{s}$  to  $\text{km} / \text{h}$



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**16.** A car travels a distance of 75 km in 1.5 hours

What is its speed ?



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**17.** A car travels a distance of 75 km in 1.5 hours

What is its speed ?



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**18.** An empty beaker weighs 100 g. When filled with 60 ml of salt solution it weighs 172 g. What is the density of the salt solution?

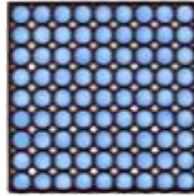
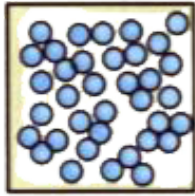
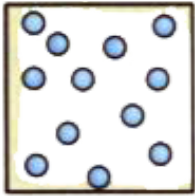


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## Exercise Picture Study

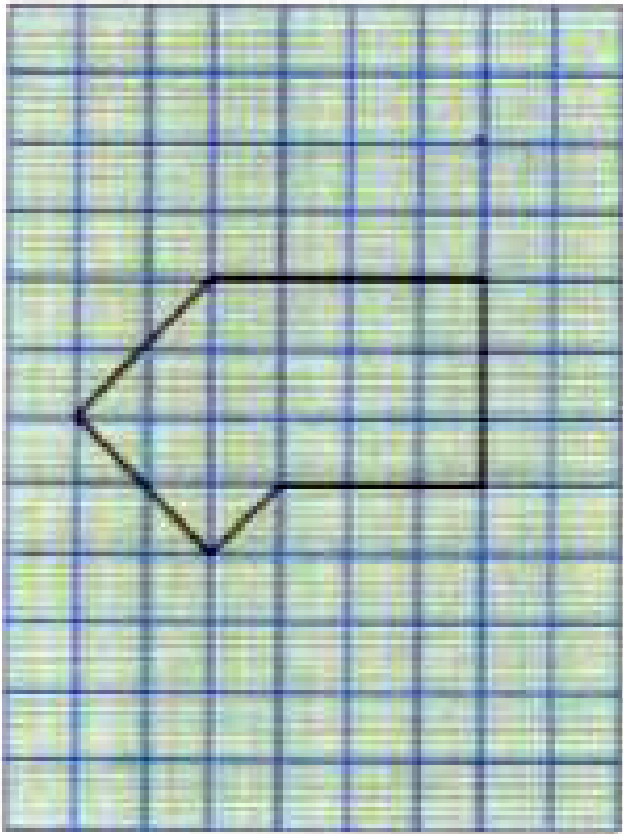
**1.** In the following figure, the volumes of the boxes are the same. Which one is more denser

and which one is lighter? Why?



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2. Find the area of the figure given below. Each grid measures  $1\text{cm}^2$



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3. The table given below gives density of different substances.

a. Which is heavier- $1\text{m}^3$  of steel or  $1\text{m}^3$  of aluminium?

b. Which is heavier-1 kg of steel or 1 kg of cork?

| Substance | Density ( $\text{kg}/\text{m}^3$ ) |
|-----------|------------------------------------|
| Wood      | 650                                |
| Ice       | 920                                |
| Aluminium | 2,700                              |
| Lead      | 11,300                             |
| Iron      | 7,800                              |
| Gold      | 19,320                             |
| Cork      | 250                                |
| Polythene | 920                                |
| Steel     | 7,900                              |



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