आधुनिक विद्या निकेतन ट्यूशन सेंटर which each side is:

Mensuration

.Find the permeter of each ofthe following figures.

ਭ 3 cm 0 6 cm

 Ξ (e) \equiv \exists 4 cm 4 cm

<u>a</u>

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2. Find the (a) figures : perimeter of each of the following ਭ 5 cm 0

<u>a</u> 5 cm <u>e</u> 40 cm

 \ni 4 cm cm

4 cm

2 cm

4. Find the perimeter ofthe equilateral triangle in . Find the perimeter ofthe ΔABC if (a) AB = 7 cm, BC = 8 cm and CA = 9 cm (b) AB = 12 cm, BC = 5 cm and CA = 13 cm (d) BC = 1 m 75 cm, CA = 2 m 50 cm and AB = 3 (c) AB = 4 m, BC = 3 m and CA = 6 m4 cm

- 5. Find the perimeter of the rectangle whose (a) 4 cm (b) 5 m (c) 2.3 dm (d) 3 m 25 cm
- (d) breadth = 22 cm, length = 25 cm (b) breadth = 7 m, length = 8 m (a) length = 13 cm, breadth = 5 cm (c) length = 17 cm, breadth = 15 cm

figures.

9

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6. Find the perimeter ofthe square in which each side is: (g) length = 8 m 5 dm, breadth = 6 m 8 dm(f) length = 2 m 25 cm, breadth 1 m 50 cm (e) length 16.8 cm, breadth 6.2 cm

<u>a</u>

(e)

Э

4 cm

6 cm

- 7. Find the length of the boundary wall of (a) 7 cm (b) 5 m (c) 7.2 km (d) 12 m 50 cm 80
- rectangular garden which is 132 m long and
- **8.** Find the perimeter of a rectangular flower-bed which is 7 m 10 cm long and 3 m 20 cm broad. m broad.

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4 cm

- The side of a square field is 160 m. If a farmer walks around its boundary once, find the total distance he has to cover.
- **10.** The field shown in the figure is to be fenced by 3 the wire costs Rs 10 per metre, find the total cost total length of the Wire required for fencing. If wires going around the field together. Find the

2. Find the

perimeter of each of the following

5 cm

figures : (a)

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- A path is to be made around a park whose shape
- **12.** Find the perimeter of is that of an equilateral tangle . Each side ofthe path if it costs Rs 50 per metre to make the path. park is 25 m long. Find the cost of making the (a) a triangle of sides 7.8 cm, 6.5 cm and 5.9 cm,
- (c) an isosceles triangle with equal sides 8.5 cm (a) a regular pentagon of side 8 cm each and third side 7 cm. (b) an equilateral triangle of side 9.4 cm,

<u>a</u>

(e)

40 cm

5 cm

- Find the perimeter of (b) a regular octagon of side 4.5 cm, (c) a regular decagon of side 3.6 cm.
- 14. Find the circumference of a circle whose radius is (a) 28 cm (b) 10.5 cm (c) 3.5 m (d) 14 km

3

15. Find the

circumference of a circle whose

diameter is

- **17.** Find the **16.** Find the radius of a circle whose circumference is 176 cm. (a) 49 m (b) 14 cm (c) 35 cm (d) 10.5 m (e) 1.4 dm diameter 앜 wheel
- **18.** Find the distance covered by the wheel of a car circumference is 264 cm. whose

4 cm

cm

17. Find the

diameter

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wheel

whose

3 cm

mo 2 4 cm

- in 500 revolutions if the diameter of the wheel is
- **19.** The diameter of the wheel of a car is 70 cm. How

20. Find the area of each of the following rectangles:

many revolutions will it make to 1.65 km? **3.** Find the perimeter of the \triangle ABC if (a) AB = 7 cm, BC = 8 cm and CA = 9 cm (b) AB = 12 cm, BC = 5 cm and CA = 13 cm

4 cm

आधुनिक विद्या निकेतन ट्यूशन सेंटर

Mensuration

1. Find the permeter of each ofthe following (a) 4 cm which each side is: (b) 5 m (c) 2.3 dm

(d) 3 m 25 cm

- 5. Find the perimeter of the rectangle whose (b) breadth = 7 m, length = 8 m (a) length = 13 cm, breadth = 5 cm
- (e) length 16.8 cm, breadth 6.2 cm (d) breadth = 22 cm, length = 25 cm

(c) length = 17 cm, breadth = 15 cm

- **6.** Find the perimeter of the square in which each side is: (a) 7 cm (g) length = 8 m 5 dm, breadth = 6 m 8 dm(f) length = 2 m 25 cm, breadth 1 m 50 cm (b) 5 m (c) 7.2 km (d) 12 m 50 cm
- 8. Find the perimeter of a rectangular flower-bec **7.** Find the rectangular garden which is 132 m long and 80 which is 7 m 10 cm long and 3 m 20 cm broad. length of the boundary wall of
- 9. The side of a square field is 160 m. If a farmer walks around its boundary once, find the total distance he has to cover.
- **10.** The field shown in the figure is to be fenced by 3 total length of the Wire required for fencing. If offencing. the wire costs Rs 10 per metre, find the total cost wires going around the field together. Find the
- **12.** Find the perimeter of **11.** A path is to be made around a park whose shape is that of an equilateral tangle . Each side ofthe (c) an isosceles triangle with equal sides 8.5 cm park is 25 m long. Find the cost of making the path if it costs Rs 50 per metre to make the path. (a) a triangle of sides 7.8 cm, 6.5 cm and 5.9 cm b) an equilateral triangle of side 9.4 cm,
- Find the perimeter of each and third side 7 cm.
- 14. Find the circumference of a circle whose radius is (c) a regular decagon of side 3.6 cm (a) a regular pentagon of side 8 cm, (b) a regular octagon of side 4.5 cm,
- **15.** Find the diameter is (a) 28 cm circumterence (b) 10.5 cm of a circle (c) 3.5 m (d) 14 km whose
- **16.** Find the radius of a circle whose circumference is 1 /6 cm. (a) 49 m (b) 14 cm (c) 35 cm (d) 10.5 m (e) 1.4 dm
- **18.** Find the distance covered by the wheel of a car circumference is 264 cm. in 500 revolutions if the diameter of the wheel is
- **19.** The diameter of the wheel of a car is 70 cm. How
- 20. Find the area of each of the following rectangles many revolutions will it make to 1.65 km? (a) Lenth = 15 m and breadth = 12 m

(c) Lenth = 150 cm and breadth = 85 cm (d) Lenth = 3 m 25 cm and breadth = 2 m

(b) Lenth = 21 m and breadth = 14 m

(a) Lenth = 15 m and breadth = 12 m

4. Find the perimeter ofthe equilateral triangle in

(d) BC = 1 m 75 cm, CA = 2 m 50 cm and AB = 3 m

(c) AB = 4 m, BC = 3 m and CA = 6 m

(d) Lenth = 3 m 25 cm and breadth = 2 m

(c) Lenth = 150 cm and breadth = 85 cm (b) Lenth = 21 m and breadth = 14 m

- (e) Lenth = 8 km and breadth = 2 km 500 m 21. Find the length of the rectangle whose
 - (a) area = 275 sq m and breadth = 23 m (b) area = 300 sg m and breadth = 15 m
- (c) area = 512 sq cm and breadth = 16 cm
- Find the breadth of the rectangle whose ä
- (c) area = 1926 sq cm and length = 107 cm (a) area = 12750 sq m and length = 150 m (b) area = 5500 sq m and length = 110 m
- (d) 3 m 40 cm Find the area ofthe square whose each side (c) 20 cm (b) 18 m (a) 15 m 23

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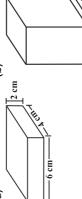
- A garden is 800 cm long and 300 cm broad. Find its length and breadth in metres and area in sq (e) 5 m 50 cm 24.
- **25.** Find the area of a rectangular flower-bed in sq cm, if its length is 7 m 30 cm and breadth is 4 m $\,$
 - 26. Find the area of the floor of a square room in square metres whose each side is 800 cm.
- 27. How many bricks will be required to lay a path 120 m long and 2.4 m broad if a bnck is 24 cm long and 15 cm wide?
- A field is 140 m long and 36 m broad. Labourers can plough 120 sq m a day, how many labourers are engaged to plough the field. If a labourer 89
- 29. Find the cost of tiling a courtyard 30 m long and 15 m broad at the rate of ₹ 5 per sq cm .

are to be engaged to plough the field in a day?

30. Find the cost of painting the walls of a room if the room is 4 m 50 cm high and each side of the room is 6 m long. The cost of painting is Rs 10

Volume and Surface Area of Solids

Find the total surface area of the cuboid: <u>a</u>



cm

- Find the total surface area of the cube: <u>e</u> (a)
- 8 cm
 - 8 cm 3. Find the volume of the cuboid: om O

- Find the volumes of the following cuboids and cubes by counting the unit cubes of volume 1 cu
 - 5. Find the volume of the cube whose each edge is:
- 6. Find the volume, lateral Surface area and the total surface area of a cube each of whose edges (d) 7 m (c) 6 cm (b) 4 m measures: (a) 5 cm
- cuboid whose (c) 8 dm 5 cm the (b) 5.6 cm volume of dimensions are: 7. Find the a) 7 m
 - (c) length = 48 cm, breadth = 36 cm, height = 24 (b) length = 12 m, breadth = 5 m, height = 4 m(a) length = 5 m, breadth = 4 m, height = 3 m
- 8. Find the volume, lateral surface area and the of the cuboid whose total surface area dimensions are:
 - (a) length = 22 cm, breadth = 12 cm and height = 7.5 cm
- (b) length = 15 m, breadth = 6 m and height = 9 m

(c) length = 24 m, breadth = 25 cm and height =

- (d) length = 48 cm, breadth = 6 dm and height e m
- 9. Find the total surface area of the cylinder:
- (a)
- **10.** Find volume of the cylinder:
- surface area of each of the cylinders whose **11.** Find the volume, curved surface area and total $250 \,\mathrm{m}^2$
- (b) radius of the base = 5.6 m and height = 1.25(a) radius of the base = 7 cm and height = 50 cm dimensions are:
- (c) radius of the base = 14 dm and height = 15 m Find the volume of a cube whose volume is three times the volume of a cuboid of dimensions 15 12
- **13.** Find the volume of a cuboid whose volume is five times the volume of a cube whose each edge is 10 m.

 $cm \times 12 cm \times 10 cm$.

(e) Lenth = 8 km and breadth = 2 km 500 m (a) area = 275 sq m and breadth = 23 m (b) area = 300 sq m and breadth = 15 m21. Find the length of the rectangle whose 3 cm

9

2 cm

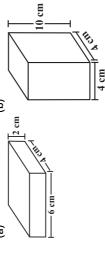
- (c) area = 512 sg cm and breadth = 16 cmFind the breadth of the rectangle whose 22.
- (a) area = 12750 sq m and length = 150 m(b) area = 5500 sq m and length = 110 m
 - (c) area = 1926 sq cm and length = 107 cm
- 23. Find the area ofthe square whose each side

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- 24. A garden is 800 cm long and 300 cm broad. Find (d) 3 m 40 cm (c) 20 cm (b) 18 m (e) 5 m 50 cm (a) 15 m
 - its length and breadth in metres and area in sq
- **25.** Find the area of a rectangular flower-bed in sq cm, if its length is 7 m 30 cm and breadth is 4 m $^{\circ}$
 - 50 cm.
- 26. Find the area of the floor of a square room in 27. How many bricks will be required to lay a path square metres whose each side is 800 cm.
- 120 m long and 2.4 m broad if a bnck is 24 cm long and 15 cm wide?
- 28. A field is 140 m long and 36 m broad. Labourers can plough 120 sq m a day, how many labourers are engaged to plough the field. If a labourer are to be engaged to plough the field in a day?
 - 29. Find the cost of tiling a courtyard 30 m long and 15 m broad at the rate of ₹ 5 per sq cm .
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Volume and Surface Area of Solids

 Find the total surface area of the cuboid: <u>a</u>



- 2. Find the total surface area of the cube: (a)
- 8 cm 10 cm

3. Find the volume of the cuboid:

- [2 cm | (a)
- cubes by counting the unit cubes of volume 1 cu 4. Find the volumes of the following cuboids and
- 5. Find the volume of the cube whose each edge is: (b) 4 m (a) 5 cm
- 6. Find the volume, lateral Surface area and the total surface area of a cube each of whose edges
- measures:

- cuboid whose (c) 8 dm 5 cm (b) 5.6 cm volume of 7. Find the (a) 7 m
 - dimensions are:
 - (c) length = 48 cm, breadth = 36 cm, height = 24(b) length = 12 m, breadth = 5 m, height = 4 m(a) length = 5 m, breadth = 4 m, height = 3 m
- 8. Find the volume, lateral surface area and the the cuboid whose total surface area of dimensions are:
 - (b) length = 15 m, breadth = 6 m and height = 9(a) length = 22 cm, breadth = 12 cm and height 7.5 cm
- (c) length = 24 m, breadth = 25 cm and height =
 - (d) length = 48 cm, breadth = 6 dm and height
 - 9. Find the total surface area of the cylinder:
- **@** 10. Find volume of the cylinder: (a)
- 11. Find the volume, curved surface area and total surface area of each of the cylinders whose dimensions are:
 - (b) radius of the base = 5.6 m and height = 1.25(a) radius of the base = 7 cm and height = 50 cm
- times the volume of a cuboid of dimensions 15 12. Find the volume of a cube whose volume is three (c) radius of the base = 14 dm and height = 15 m $cm \times 12 cm \times 10 cm$
- **13.** Find the volume of a cuboid whose volume is five times the volume of a cube whose each