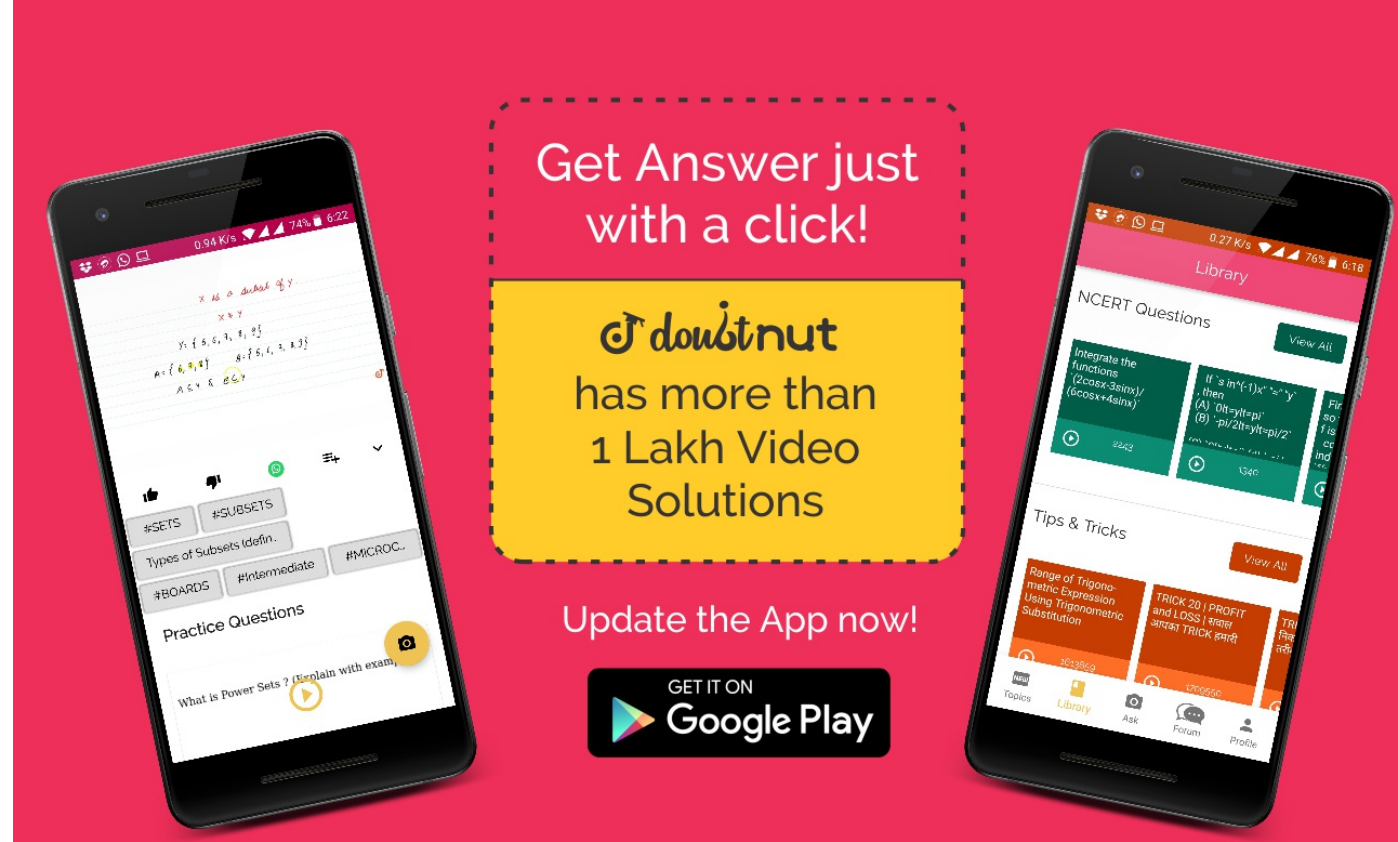


Ques No.	Question
1	<p><b>NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.1 - Q 1</b></p> <p>A square and a rectangular field with measurements as given in the figure have the same perimeter. Which field has a larger area?</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>
2	<p><b>NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.1 - Q 2</b></p> <p>Mrs. Kaushik has a square plot with the measurement as shown in the figure. She wants to construct a house in the middle of the plot. A garden is developed around the house. Find the total cost of developing a garden around the house at the rate of Rs 55 per m<sup>2</sup>.</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>
3	<p><b>NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.1 - Q 3</b></p> <p>The shape of a garden is rectangular in the middle and semi circular at the ends as shown in the diagram. Find the area and the perimeter of this garden [Length of rectangle is <math>20 - (35 + 35)</math> metres].</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>
4	<p><b>NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.1 - Q 4</b></p> <p>A flooring tile has the shape of a parallelogram whose base is 24 cm and the corresponding height is 10 cm. How many such tiles are required to cover a floor of area 1080 m<sup>2</sup>? (If required you can split the tiles in whatever way you want to fill up the corners).</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>
5	<p><b>NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.1 - Q 5</b></p> <p>An ant is moving around a few food pieces of different shapes scattered on the floor. For which food-piece would the ant have to take a longer round? Remember, circumference of a circle can be obtained by using the expression <math>c = 2\pi r</math>, where <math>r</math> is the radius of the circle.</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>



6

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 1**

The shape of the top surface of a table is a trapezium. Find its area if its parallel sides are 1 m and 1.2 m and perpendicular distance between them is 0.8 m.

[▶ Watch Free Video Solution on Doubtnut](#)

7

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 2**

The area of a trapezium is  $34\text{cm}^2$  and the length of one of the parallel sides is  $10\text{cm}$  and its height is  $4\text{cm}$ . Find the length of the other parallel side.

[▶ Watch Free Video Solution on Doubtnut](#)

8

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 3**

Length of the fence of a trapezium shaped field  $ABCD$  is  $120\text{m}$ . If  $BC = 48\text{m}$ ,  $CD = 17\text{m}$  and  $AD = 40\text{m}$ , find the area of this field. Side  $AB$  is perpendicular to the parallel sides  $AD$  and  $BC$ .

[▶ Watch Free Video Solution on Doubtnut](#)

9

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 4**

The diagonal of a quadrilateral shaped field is 24 m and the perpendiculars dropped on it from the remaining opposite vertices are 8 m and 13 m. Find the area of the field.

[▶ Watch Free Video Solution on Doubtnut](#)

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 5**

10

The diagonals of a rhombus are 7.5 cm and 12 cm. Find its area.

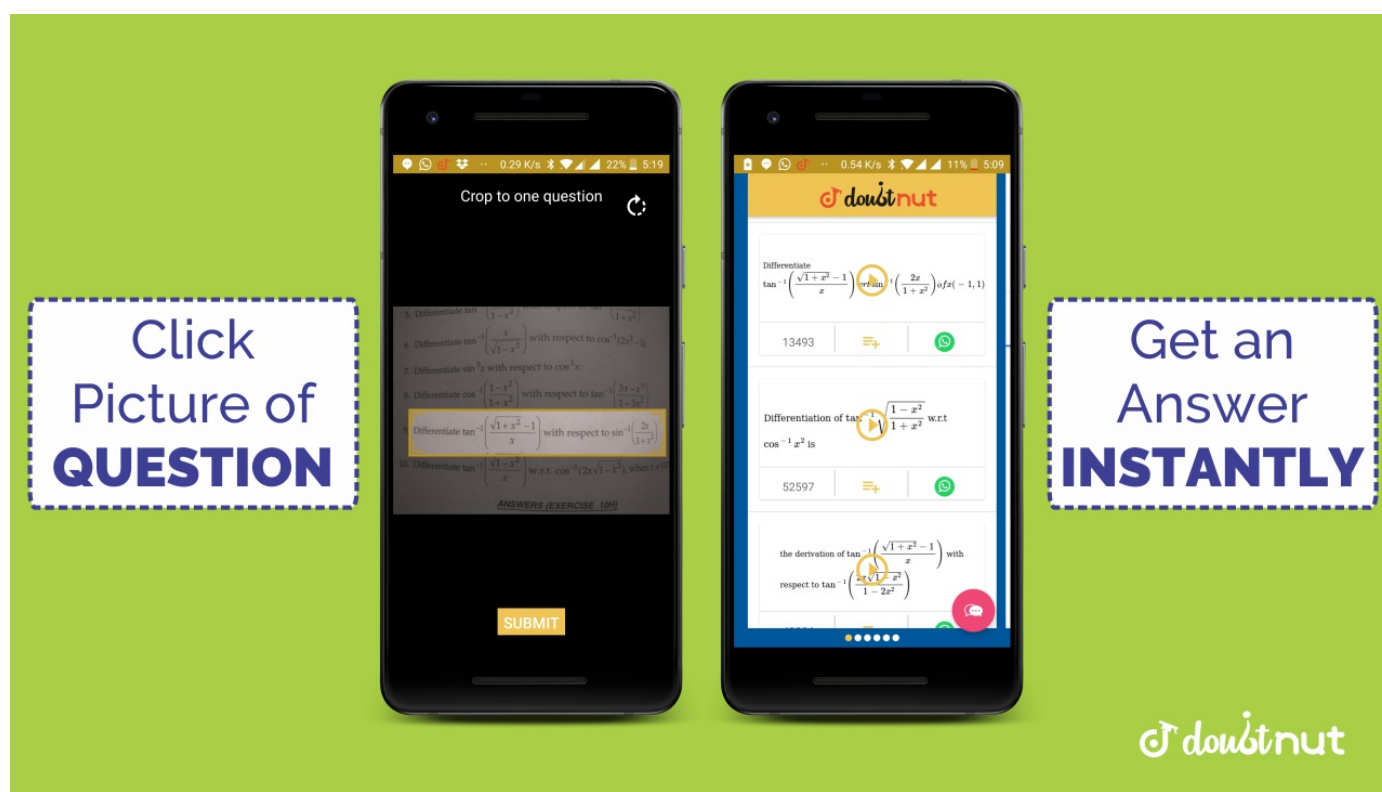
[▶ Watch Free Video Solution on Doubtnut](#)

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 6**

11

Find the area of a rhombus whose side is 6 cm and whose altitude is 4 cm. If one of its diagonals is 8 cm long, find the length of the other diagonal.

[▶ Watch Free Video Solution on Doubtnut](#)

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 7**

12

The floor of a building consists of 3000 tiles which are rhombus shaped and each of its diagonals are 45 cm and 30 cm in length. Find the total cost of polishing the floor, if the cost per m<sup>2</sup> is Rs 4.

[▶ Watch Free Video Solution on Doubtnut](#)

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 8**

13

Mohan wants to buy a trapezium shaped field. Its side along the river is parallel to and twice the side along the road. If the area of this field is 10500 m<sup>2</sup> and the perpendicular distance between the two parallel sides is 100 m, find the length of the side along the river.

[▶ Watch Free Video Solution on Doubtnut](#)

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 9**

14

Top surface of a raised platform is in the shape of a regular octagon as shown in the figure. Find the area of the octagonal surface.

[▶ Watch Free Video Solution on Doubtnut](#)

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 10**

15

There is a pentagonal shaped park as shown in the figure. For finding its area Jyoti and Kavita divided it in two different ways. Find the area of this park using both ways. Can you suggest some other way of finding its area?

[▶ Watch Free Video Solution on Doubtnut](#)

16

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.2 - Q 11**

Diagram of the adjacent picture frame has outer dimensions  $= 24\text{cm} \times 28\text{cm}$ . inner dimensions  $16\text{cm} \times 20\text{cm}$ . Find the area of each section of the frame, if the width of each section is same.

[▶ Watch Free Video Solution on Doubtnut](#)

17

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 1**

There are two cuboidal boxes as shown in the adjoining figure. Which box requires the lesser amount of material to make?

[▶ Watch Free Video Solution on Doubtnut](#)



Get Solutions as YOU TYPE

Click Here to TYPE & ASK

find the equation of tangent a

Find the equation of tangent to the curve 'x=a(th...

Find the equation of tangent to the curve 'x=a(th...

Find the equation of tangent to the curve 'y=sin^(-1...

If '3x+y=0' is a tangent to a circle whose center is ...

Find the equation of tangent to 'y=int\_(x^2)^(x^3)(...

doubtnut

18

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 2**

A suitcase with measures  $8\text{cm} \times 48\text{cm} \times 24\text{cm}$  is to be covered with a tarpaulin cloth. How many metres of tarpaulin of width  $96\text{cm}$  is required to cover 100 such suitcases?

[▶ Watch Free Video Solution on Doubtnut](#)

19

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 3**

Find the side of a cube whose surface area is  $600\text{cm}^2$ .

[▶ Watch Free Video Solution on Doubtnut](#)

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 4**

20

Rukhsar painted the outside of the cabinet of measure  $1m \times 2m \times 15m$ . How much surface area did she cover if she painted all except the bottom of the cabinet.

[▶ Watch Free Video Solution on Doubtnut](#)

21

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 5**

Daniel is painting the walls and ceiling of a cuboidal hall with length, breadth and height of  $15m$ ,  $10m$  and  $7m$  respectively. From each can of paint  $100m^2$  of area is painted. How many cans of paint will she need to paint the room?

[▶ Watch Free Video Solution on Doubtnut](#)

22

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 6**

Describe how the two figures at the right are alike and how they are different. Which box has larger lateral surface area?

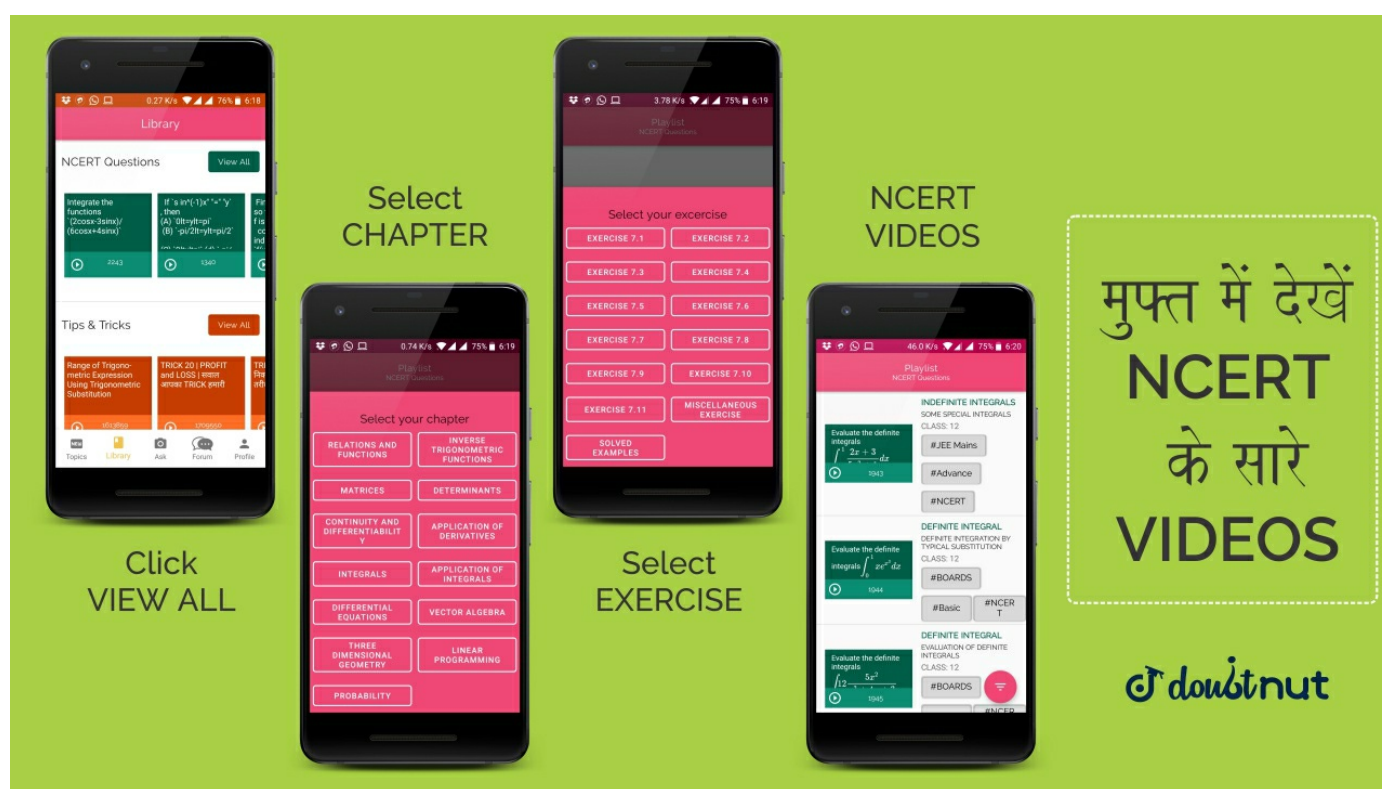
[▶ Watch Free Video Solution on Doubtnut](#)

23

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 7**

A closed cylindrical tank of radius  $7m$  and height  $3m$  is made from a sheet of metal. How much sheet of metal is required?

[▶ Watch Free Video Solution on Doubtnut](#)



24

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 8**

The lateral surface area of a hollow cylinder is  $4224cm^2$ . It is cut along its height and formed a rectangular sheet of width  $33cm$ . Find the perimeter of rectangular sheet?

[▶ Watch Free Video Solution on Doubtnut](#)

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 9**

A road roller takes 750 complete revolutions to move once over to level a road. Find

25

the area of the road if the diameter of a road roller is 84 cm and length is 1 m.

[▶ Watch Free Video Solution on Doubtnut](#)

26

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.3 - Q 10**

A company packages its milk powder in cylindrical container whose base has a diameter of 14 cm and height 20 cm. Company places a label around the surface of the container (as shown in the figure). If the label is placed 2 cm from top and bottom, what is the area of the label.

[▶ Watch Free Video Solution on Doubtnut](#)

27

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.4 - Q 1**

Given a cylindrical tank, in which situation will you find surface area and in which situation volume. (a) To find how much it can hold. (b) Number of cement bags required to plaster it. (c) To find the number of smaller tanks that can be filled with water from it.

[▶ Watch Free Video Solution on Doubtnut](#)

28

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.4 - Q 2**

Diameter of cylinder A is 7 cm, and the height is 14 cm. Diameter of cylinder B is 14 cm and height is 7 cm. Without doing any calculations can you suggest whose volume is greater? Verify it by finding the volume of both the cylinders. Check whether the cylinder with greater volume also has greater surface area?

[▶ Watch Free Video Solution on Doubtnut](#)

29

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.4 - Q 3**

Find the height of a cuboid whose base area is  $180\text{cm}^2$  and volume is  $900\text{cm}^3$  ?

[▶ Watch Free Video Solution on Doubtnut](#)

 **doubtnut**  
पढ़ना हुआ आसान



**FREE VIDEOS OF PREVIOUS YEAR EXAM PAPERS**

**JEE ADVANCED | JEE MAINS  
12 BOARD | 10 BOARDS**

Made by  **doubtnut** सिर्फ आपके लिए

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.4 - Q 4**

30

A cuboid is of dimensions

$60\text{cm} \times 54\text{cm}$

$\times 30\text{cm}.$

How many small cubes with side 6 cm can be placed in the given cuboid?

[▶ Watch Free Video Solution on Doubtnut](#)**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.4 - Q 5**

31

Find the height of the cylinder whose volume is  $154\text{m}^3$  and diameter of the base is  $140\text{cm}$  ?[▶ Watch Free Video Solution on Doubtnut](#)**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.4 - Q 6**

32

A milk tank is in the form of cylinder whose radius is 1.5 m and length is 7 m. Find the quantity of milk in litres that can be stored in the tank?

[▶ Watch Free Video Solution on Doubtnut](#)**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.4 - Q 7**

33

If each edge of a cube is doubled, (i) how many times will its surface area increase? (ii) how many times will its volume increase?

[▶ Watch Free Video Solution on Doubtnut](#)**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - EXERCISE 11.4 - Q 8**

34

Water is pouring into a cuboidal reservoir at the rate of 60 litres per minute. If the volume of reservoir is  $108\text{m}^3$ , find the number of hours it will take to fill the reservoir.[▶ Watch Free Video Solution on Doubtnut](#)**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 1**

35

The area of a trapezium shaped field is  $480\text{m}^2$ , the distance between two parallel sides is 15 m and one of the parallel side is 20 m. Find the other parallel side.[▶ Watch Free Video Solution on Doubtnut](#)



36

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 2**

The area of a rhombus is  $240\text{cm}^2$  and one of the diagonals is  $16\text{cm}$ . Find the other diagonal.

[▶ Watch Free Video Solution on Doubtnut](#)

37

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 3**

There is a regular hexagon MNOPQR of side 5 cm . aman and ridhima divided it into two different ways . Find the area of this hexagon both ways.

[▶ Watch Free Video Solution on Doubtnut](#)

38

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 4**

An aquarium is in the form of a cuboid whose external measures are  $80\text{cm} \times 30\text{cm} \times 40\text{cm}$ .

The base, side faces and back face are to be covered with a coloured paper. Find the area of the paper needed?

[▶ Watch Free Video Solution on Doubtnut](#)

39

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 5**

The internal measures of a cuboidal room are  $12\text{m} \times 8\text{m} \times 4\text{m}$  . Find the total cost of whitewashing all four walls of a room, if the cost of white washing is Rs 5 per  $\text{m}^2$ . What will be the cost of white washing if the ceiling of the room is also whitewashed.

[▶ Watch Free Video Solution on Doubtnut](#)

40

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 6**

In a building there are 24 cylindrical pillars. The radius of each pillar is  $28\text{cm}$  and height is  $4\text{m}$ . Find the total cost of painting the curved surface area of all pillars at the rate of Rs 8 per  $\text{m}^2$ .

[▶ Watch Free Video Solution on Doubtnut](#)



41

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 7**

Find the height of a cylinder whose radius is  $7\text{cm}$  and the total surface area is  $968\text{cm}^2$ .

[▶ Watch Free Video Solution on Doubtnut](#)



42

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 8**

Find the height of a cuboid whose volume is  $275\text{cm}^3$  and base area is  $25\text{cm}^2$ .

[▶ Watch Free Video Solution on Doubtnut](#)

43

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 9**

A godown is in the form of a cuboid of measures  $60\text{m} \times 40\text{m} \times 30\text{m}$ . How many cuboidal boxes can be stored in it if the volume of one box is  $08\text{m}^3$ ?

[▶ Watch Free Video Solution on Doubtnut](#)

44

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 10**

A rectangular paper of width  $14\text{cm}$  is rolled along its width and a cylinder of radius  $20\text{cm}$  is formed. Find the volume of the cylinder (Fig 11.45)? (Take  $\frac{22}{7}$  for  $\pi$ )

[▶ Watch Free Video Solution on Doubtnut](#)

45

**NCERT - CLASS 8 - CHAPTER 11 MENSURATION - SOLVED EXAMPLES - Q 11**

A rectangular piece of paper  $11\text{cm} \times 4\text{cm}$  is folded without overlapping to make a cylinder of height  $4\text{cm}$ . Find the volume of the cylinder.

[▶ Watch Free Video Solution on Doubtnut](#)

🚀 Download Doubtnut to Ask Any Math Question By just a click

🚀 Get A Video Solution For Free in Seconds

🚀 Doubtnut Has More Than 1 Lakh Video Solutions

🚀 Free Video Solutions of NCERT, RD Sharma, RS Aggarwal, Cengage (G.Tewani), Resonance DPP, Allen, Bansal, FIITJEE, Akash, Narayana, VidyaMandir

🤖 Download Doubtnut Today



Get Answer just with a click!

**doubtnut** has more than 1 Lakh Video Solutions

Update the App now!

GET IT ON **Google Play**

The advertisement features two smartphones. The left phone displays a search interface for 'SETS' with various filters like '#SUBSETS', '#BOARDS', and '#Intermediate'. The right phone shows a 'Library' screen with 'NCERT Questions' and 'Tips & Tricks' sections. A central yellow box contains the text 'Get Answer just with a click!' and 'doubtnut has more than 1 Lakh Video Solutions'. Below this is a 'Update the App now!' message and a 'GET IT ON Google Play' button.