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EXERCISE 11.1 - Question No. 1

A square and a rectangular field with measurements as given in the figure have the same perimeter. Which field has a larger area?

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EXERCISE 11.1 - Question No. 2

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 m².

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EXERCISE 11.1 - Question No. 3

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 20 – (35 + 35) metres].

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EXERCISE 11.1 - Question No. 4

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 m²? (If required you can split the tiles in whatever way you want to fill up the corners).

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EXERCISE 11.1 - Question No. 5

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 $c = 2\pi r$, where r is the radius of the circle.

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EXERCISE 11.2 - Question No. 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.

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EXERCISE 11.2 - Question No. 2

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

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EXERCISE 11.2 - Question No. 3

Length of the fence of a trapezium shaped field $ABCD$ is $120m$.

If $BC = 48m$, $CD = 17m$ and $AD = 40m$, find the area of

this field. Side AB is perpendicular to the parallel sides

AD and BC .

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EXERCISE 11.2 - Question No. 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.

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EXERCISE 11.2 - Question No. 5

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

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EXERCISE 11.2 - Question No. 6

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.

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EXERCISE 11.2 - Question No. 7

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^2 is Rs 4.

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EXERCISE 11.2 - Question No. 8

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 $10500 m^2$ and the perpendicular distance between the

two parallel sides is 100 m, find the length of the side along the river.

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EXERCISE 11.2 - Question No. 9

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.

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EXERCISE 11.2 - Question No. 10

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?

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EXERCISE 11.2 - Question No. 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.

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EXERCISE 11.3 - Question No. 1

There are two cuboidal boxes as shown in the adjoining figure.

Which box requires the lesser amount of material to make?

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EXERCISE 11.3 - Question No. 2

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

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EXERCISE 11.3 - Question No. 3

Find the side of a cube whose surface area is 600cm^2 .

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EXERCISE 11.3 - Question No. 4

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

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EXERCISE 11.3 - Question No. 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 From each can of paint $100m^2$ of area is painted. How many cans of paint will she need to paint the room?

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EXERCISE 11.3 - Question No. 6

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

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EXERCISE 11.3 - Question No. 7

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

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EXERCISE 11.3 - Question No. 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?

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EXERCISE 11.3 - Question No. 9

A road roller takes 750 complete revolutions to move once over to level a road. Find the area of the road if the diameter of a road roller is 84 cm and length is 1 m.

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EXERCISE 11.3 - Question No. 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.

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EXERCISE 11.4 - Question No. 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.

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EXERCISE 11.4 - Question No. 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?

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EXERCISE 11.4 - Question No. 3

Find the height of a cuboid whose base area is 180cm^2 and volume is 900cm^3 ?

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EXERCISE 11.4 - Question No. 4

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?

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EXERCISE 11.4 - Question No. 5

Find the height of the cylinder whose volume is 154m^3 and diameter of the base is 140cm ?

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EXERCISE 11.4 - Question No. 6

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?

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EXERCISE 11.4 - Question No. 7

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?

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EXERCISE 11.4 - Question No. 8

Water is pouring into a cuboidal reservoir at the rate of 60 litres per minute. If the volume of reservoir is $108m^3$, find the number of hours it will take to fill the reservoir.

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SOLVED EXAMPLES - Question No. 1

The area of a trapezium shaped field is $480 m^2$, the distance between two parallel sides is 15 m and one of the parallel side is 20 m. Find the other parallel side.

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SOLVED EXAMPLES - Question No. 2

The area of a rhombus is 240cm^2 and one of the diagonals is 16cm . Find the other diagonal.

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SOLVED EXAMPLES - Question No. 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.

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SOLVED EXAMPLES - Question No. 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?

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SOLVED EXAMPLES - Question No. 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 m^2 . What will be the cost of white washing if the ceiling of the room is also whitewashed.

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SOLVED EXAMPLES - Question No. 6

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

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SOLVED EXAMPLES - Question No. 7

Find the height of a cylinder whose radius is 7cm and the total surface area is 968cm^2 .

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SOLVED EXAMPLES - Question No. 8

Find the height of a cuboid whose volume is 275cm^3 and base area is 25cm^2 .

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SOLVED EXAMPLES - Question No. 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 08m^3 ?

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SOLVED EXAMPLES - Question No. 10

A rectangular paper of width 14cm is rolled along its width and a cylinder of radius 20cm is formed. Find the volume of the cylinder

(Fig 11.45) ? (Take $\frac{22}{7}$ for π)

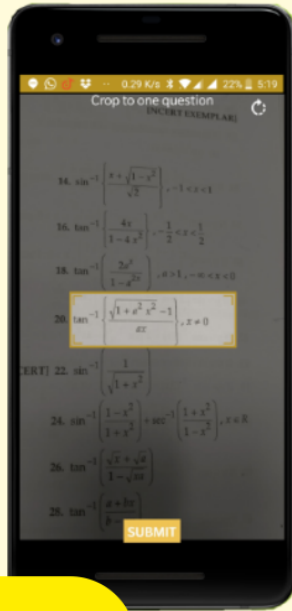
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SOLVED EXAMPLES - Question No. 11

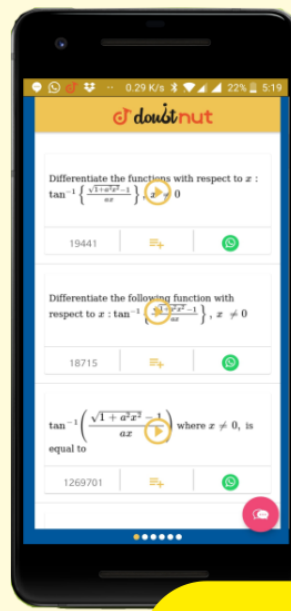
A rectangular piece of paper $11\text{cm} \times 4\text{cm}$ is folded without overlapping to make a cylinder of height 4cm . Find the volume of the cylinder.

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