NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH,K.S.A

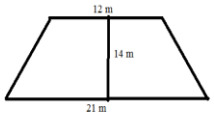
Affiliated to CBSE – New Delhi

Workshee-1
Annual Examination-2018-2019
Subject-Mathematics

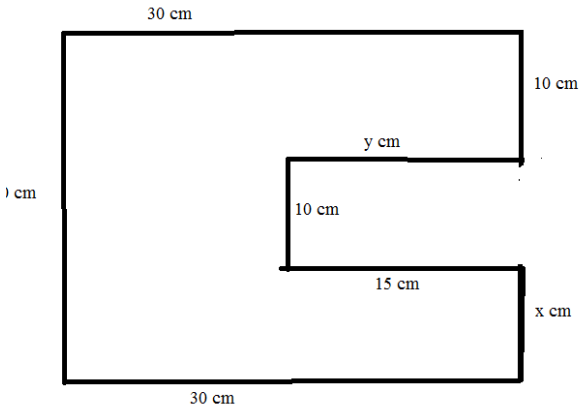
Class-8 **Block-24,25,26**

Block 23 - Area of Quadrilaterals

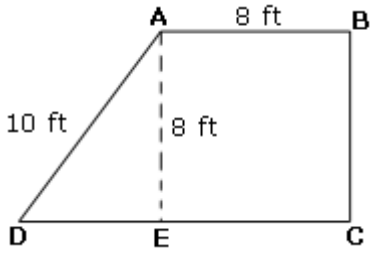
1. DL and BM are the heights on sides AB and DC in Parallelogram ABCD respectively. If the area of Parallelogram ABCD is 1470 cm^2, AB= 35 cm, find the length of BM and DL.
2. The diagonals of a Rhombus are 19.4 cm and 14.7 cm. Find the area.
3. Find the area of a quadrilateral is 24cm and the altitudes drawn on it from the opposite vertices are 11 cm and 21 cm.
4. Find the area.



5. A Park of radius 70 m has a circular fountain of radius 17.5 m. Calculate the total walking area available to people visiting the park.
6. Find the area



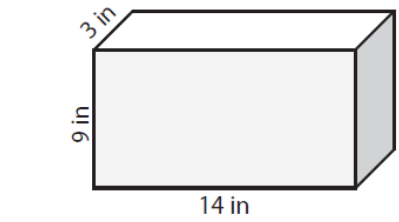
7. Find the area of the trapezoid ABCD.



8. The sum of the lengths of the bases and the height of a trapezoid are 13 inches and 6 inches respectively. Determine the area of the trapezoid.
9. The side of a square measures 1/6 foot. Find the area of the square.
10. What is the area of the rectangle whose length is inches and width is 1 inches?

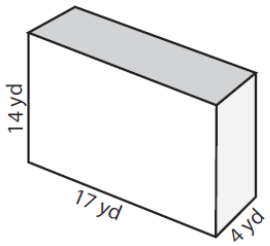
Block 24 - Surface Area

1. Find the height of a cylinder whose radius is 14 cm and the total surface area is 1936 cm^2.
2. 16 identical cubes with edges measuring 4 cm are joined together in 4 rows of 4 columns each. What will be the surface area of the new 3-D shape formed ?.
3. A cylindrical water tank of radius 3.5 m and height 7.5 m is made from a sheet of metal and is open from the top. How much metal sheet is required to make the tank? How much will be required if the tank is closed at the top as well?
4. Milk powder comes in a cylindrical container whose height is 20 cm and base has a diameter of 14 cm. The company places a label around the lateral surface of the container. If the label is Placed leaving a margin of 2 cm from the top and bottom, what is the area of the label?
5. If r = 49 m, h = 20m, find the surface area of the cylinder.
6. Find the surface area:



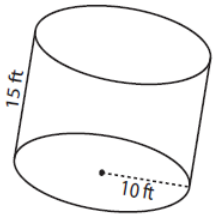
Surface Area = _____

7. Find the surface area:



Surface Area = _____

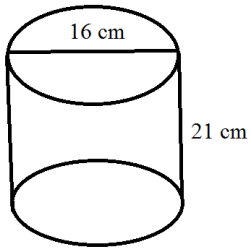
8. find the surface area:



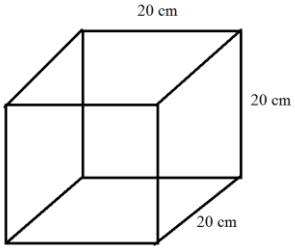
9. Find the surface area of the cube with side 16.5 cm.

Block 25 - Volume

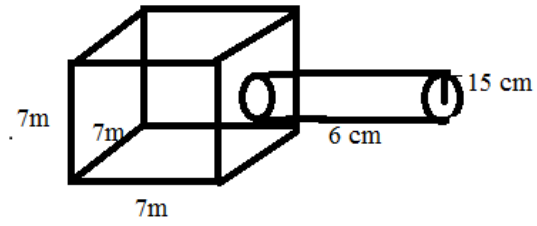
1. Find the volume of the given cylinder



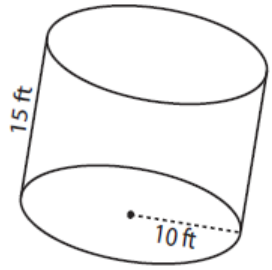
2. Find the volume



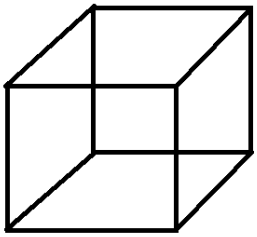
3. Find the volume of the figure.



4. 5 Identical cubes with edges as 8.5 cm are joined to each other. What will the volume of the new 3-D shape formed be ?
5. A drum has a diameter of 40 cm and a depth of 18 cm. Find its volume.
6. The volume of a cylindrical metal pipe is 5735 cm^3. If the diameter of the mouth of the pipe is 21 cm then find the length of the pipe?
7. Find the volume :



8. Find the volume of the cube



side = 30 cm

9. A company is deciding which box to use for their merchandise. Box A measures 8 cm * 6.25 cm * 10.5 cm and box B measures 9 cm * 5.5 cm * 11.75 cm. Which box requires more material to make?
10. The lateral area of a cylinder is 94.2 cm^2. the height is 6 cm. what is the radius?