Holiday Home work
KV MATI SHIFT -1
CLASS IX
Session 2024-25

Q-1Two cubes of edge 6 cm are joined to form a cuboid. Find the total surface area of the cuboid.
Q-2 If in a cylinder, radius is doubled and height is halved, then find its curved surface area.
Q-3 The radii of two cylinders of the same height are in the ratio 4 :5, then find the ratio of their volumes.
Q-4 How many balls, each of radius 2 cm can be made from a solid sphere of lead of radius 8 cm
Q-5 A cone is 8.4 cm high and the radius of its base is 2.1 cm. It is melted and recast into a sphere. Find the radius of the sphere.
Q-6 In a cylinder, if radius is halved and height is doubled, then find the volume with respect to original volume.
Q-7 Calculate the surface area of a hemispherical dome of a temple with radius 14 m to be whitewashed from outside
Q-8 Find the Area of a Triangle whose two sides are 18 cm and 10 cm, respectively and the perimeter is 42 cm.
Q-9 A triangular park has sides 120 m, 80 m and 50 m. A gardener has to put a fence all around it and also plant grass inside. How much area does he need to plant?
Q-10 The sides of a triangle are in the ratio of 12: 17: 25 and its perimeter is 540 cm. Find its area.
Q-11 Find the area of a triangle whose sides are 4.5 cm and 10 cm and perimeter 20.5 cm.
Q-12 What is the area of a triangle whose sides are 9 cm, 12 cm and 15 cm?
Q-13 The perimeter of a right triangle is 300m. If its sides are in the ratio 3 : 5 : 7. Find the area of the triangle.
Q-14 The sides of a triangle are 11 m, 60 m and 61 m. What is the altitude to the smallest side?

Make portfolio file with set format

Make a project file choose the following one

Topic 1-

Conduct a survey of a group of students and represent it graphically- height, weight, number of family members,
pocket money, etc.

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1. Introduction

2. Procedure

(a) Data Collection: Using questionnaire.

(b) Data Tabulation: Using tally bars to tabulate data and then constructing numerical data tables.

(c) Data Presentation: Presenting data using bar charts, histograms and frequency polygons.

(d) Data Processing: Finding mean, median and mode.

3. Observations.

4. Conclusion (Project Report): Analysis of data collected.

5. Further study: Applying skills learnt to other situations.

Topic 2- Planning delivery routes for a postman/milkman.

Planning delivery route for a postman.

Table of Contents

1. Introduction.

4. Decision.

2. Planning the route (option 1 and option 2).

5. Further study.

3. Comparison.