Class – VIII   **Subject: Maths**

Month – August 2021

Topic: 1) Cube and Cube Roots   **2) Understanding Quadrilaterals**

Based on your understanding of E-lectures cum PPTs, VideoLinks and other e-resources shared with you, answer the following questions.

Q1: By what number should we divide 135 to get a perfect cube?   **1 mark**

A. 3   B. 5   C. 7   D. 9

Q2: Which of the following quadrilaterals has two pairs of adjacent sides equal and its diagonals intersect at 90 degrees?   **1 mark**

A. Square   B. Kite   C. Rhombus   D. Rectangle

Q3: Find the cube root of 17576 through estimation.   **2 marks**

Q4: Find the measure of an interior angle of a regular polygon of 9 sides.   **2 marks**

Q5: In quadrilaterals,   **3 marks**

(i) which of them have their diagonals bisecting each other?

(ii) which of them have their diagonal perpendicular to each other?

(iii) which of them have equal diagonals?

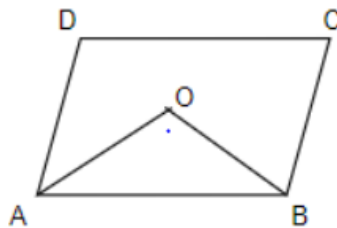**Q6: a)** Show that: $\sqrt[3]{27 \times 125} = \sqrt[3]{27} \times \sqrt[3]{125}$ **3 marks**

   b) Find the cube root of 343 by successive subtraction method.

Q7: In a parallelogram ABCD, the bisectors of ∠ A and ∠ B meet at O. Find ∠ AOB.   **4 marks**
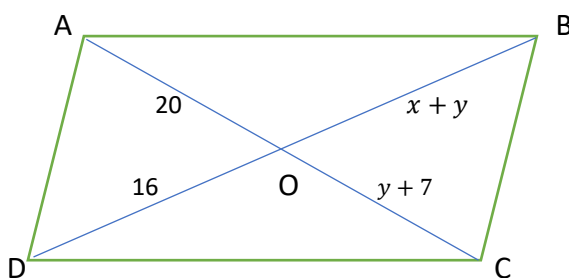

Q8: CASE STUDY QUESTION:

Shella bought a piece of land in the shape of a parallelogram ABCD as shown below.   **4 marks**

Answer the following questions based on the given figure.

a) If the lengths of side CD and CB are 70 metre and 50 metre respectively, find the lengths of AD and AB?

b) If $\angle DAB = 65°$, find the measures of $\angle ADC, \angle DCB \text{ and } \angle CBA$?

c) What kind of quadrilateral is a parallelogram – concave or convex? Why?

d) Find the value of $x \text{ and } y$?

Note: 1. ==**Due date of submission: September 06, 2021**==

2. Email your assignment as a PDF file to the concerned teachers, whose email IDs are shared as follows:

Class VIII A   Mr. Sahil Sharma   sahil.sharma98589@gmail.com

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Class VIII F, G   Ms. Ambika Sharma   ambica.1sharma@gmail.com

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Class VIII J, K   Mr. Raj Kumar   raj.vasi@yahoo.com

3. Students must mention their name, class/section and date in their assignments

4. Your assignment will be marked for Internal /Term assessments. Therefore, it is necessary for you to submit it on time.