INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics (2022-23)

Worksheet DTQ – PRACTICAL GEOMETRY

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)	
Q1.	Construct a triangle ABC, given that AB = 5 cm, BC = 6 cm and AC = 7 cm.
Q2.	Draw ΔPQR with PQ = 5 cm, QR = 3.5 cm and PR = 5 cm. What type of triangle is this?
Q3.	Construct an equilateral triangle of side 5.3 cm.
Q4.	construct triangle DEF such that DE = 5 cm, EF = 6 cm, and DF = 7 cm.
Q5.	Construct ΔDEF such that DE = 5 cm, DF = 3 cm and m ∠EDF = 90°.
Q6.	Construct an isosceles triangle in which the lengths of each of its equal sides is 6.5 cm and the angle between them is 85°.
Q7.	Construct a triangle PQR, given that PQ = 3 cm, QR = 5.5 cm and ∠PQR = 60°.
SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)	
Q8.	Construct ΔXYZ if it is given that XY = 6 cm, m∠ZXY = 30° and m ∠XYZ = 100°.
Q9.	Construct ΔABC, given m ∠A = m ∠B = 45° and AB = 6 cm.
Q10.	Construct ΔLMN, right-angled at M, given that LN = 5 cm and MN = 3 cm.
Q11.	Construct a right-angled triangle whose hypotenuse is 10 cm long and one of the legs is 6cm long.
Q12.	Draw a line, say AB, take a point C outside it. Through C, draw a line parallel to AB using ruler and compasses only.
LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)	
Q13.	Construct an equilateral triangle of side 6.5 cm
Q14.	Construct ΔPQR if PQ = 5 cm, m ∠PQR = 105° and m ∠QRP = 45°(Hint**:** Recall angle-sum property of a triangle).
Q15.	Construct ΔABC with AB=AC=7.3 cm and m ∠A= 75°. Measure the length of BC