



# INDIAN SCHOOL AL WADI AL KABIR

## Class VII, Mathematics *Worksheet – PRACTICAL GEOMETRY*

Q1.	Construct $\Delta PQR$ with $\angle Q = 30^\circ$ , $\angle R = 60^\circ$ and $QR = 4.7\text{cm}$
Q2.	Construct $\Delta ABC$ with $\angle A = 70^\circ$ , $\angle B = 50^\circ$ and $AC = 3\text{cm}$
Q3.	Is it possible to construct triangle ABC, with $\angle A = 85^\circ$ , $\angle B = 115^\circ$ $AB = 5\text{ cm}$ ? Give reason.
Q4.	Construct $\Delta PQR$ with $PQ = 3.5\text{ cm}$ , $PR = 3.5\text{ cm}$ and $QR = 4.7\text{cm}$ .
Q5.	Is it possible to construct triangle LMN, with $\angle L = 60^\circ$ , $\angle N = 120^\circ$ $LM = 5\text{ cm}$ ? Give reason.
Q6.	Construct $\Delta DEF$ with $DE = 4.5\text{ cm}$ , $EF = 5.5\text{ cm}$ and $DF = 4\text{cm}$ .
Q7.	Construct $\Delta XYZ$ with $XY = 3\text{ cm}$ , $YZ = 4\text{ cm}$ and $XZ = 4.7\text{cm}$ . What type of triangle is this?
Q8.	Is it possible to construct triangle ABC, with $BC = 2\text{cm}$ , $AB = 4\text{ cm}$ , $BC = 2\text{ cm}$ ? Give reason.
Q9.	Construct an equilateral triangle of side $6.3\text{ cm}$ .
Q10.	Draw a line segment $AB$ of length $7.2\text{ cm}$ . Mark a point $P$ not on it. Through $P$ , draw a line parallel to $AB$ .
Q11.	Draw a $\Delta PQR$ , in which $QR = 3.5\text{ cm}$ , $m\angle Q = 40^\circ$ , $m\angle R = 60^\circ$ .
Q12.	Construct $\Delta PQR$ in which $PR = 7\text{cm}$ and hypotenuse $QR = 12\text{cm}$
Q13.	Construct $\Delta XYZ$ with $\angle X = 60^\circ$ , $\angle Y = 45^\circ$ and $XY = 6\text{cm}$ .
Q14.	A right triangle having hypotenuse of length $5\text{cm}$ and with one of its acute angles $60^\circ$ .
Q15.	$\Delta XYZ$ in which $XY = 6\text{cm}$ , $\angle X = 45^\circ$ , $\angle Y = 60^\circ$ . Measure $\angle Z$ .

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