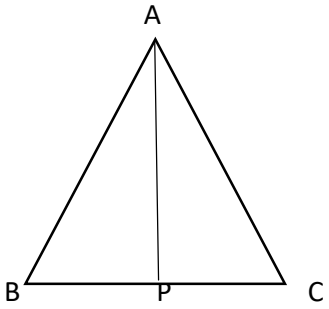
TRIANGLE AND ITS PROPERTIES

Q1. One of the exterior angle of a ΔABC measures 150°. If one of the interior opposite angle is 75°. Find the other interior opposite angle. What type of triangle is this?

Q2. ΔABC is an isosceles triangle with AB = BC. If B = 40°, what are the measures of A and C.

Q3. AB = AC and AP is perpendicular to BC and B = 60°, then find

i) Angle BAP.
ii) Angle ACB.



Q4. Which of the following can be the sides of a triangle?

a) 6,4,8
b) 8,10,18
c) 3,4,10
d) 35,38,40

Q5. The length of the two sides of a triangle are 4cm and 6cm. Between what two measures should the length of the third side fall?

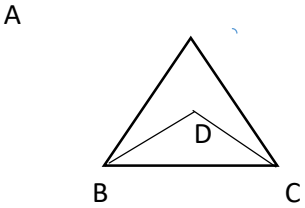
Q6. The length of the two sides of a right triangle are 5cm and 12cm. Find the length of the hypotenuse.

Q7. A ladder is placed in such a way that its foot is it a distance of 7m from a wall and its top reaches a window 25m above the ground. Determine the length of ladder.

Q8. Draw a rough diagram for each :

a) Medians and centroid of a triangle.
b) Altitudes and Orthocentre of a triangle
c) Circumcentre of a triange.

Q9. Given : BAC = 30° , BDC = 70° , Find ABD.



Q10. Given : ACB = CAB = EDB = 30° , Find DEA and EBD.