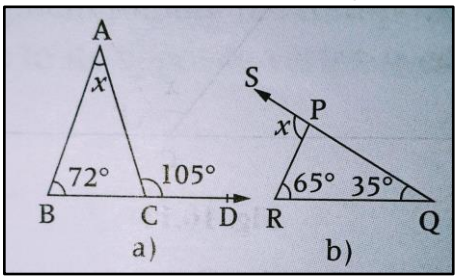
MONA MODERN ENG. MED. SCHOOL, SARANGARH

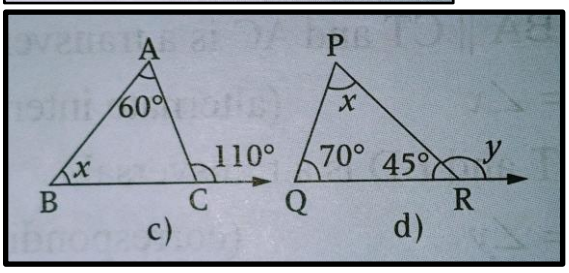
Question Blast Round-2

Class: 7th

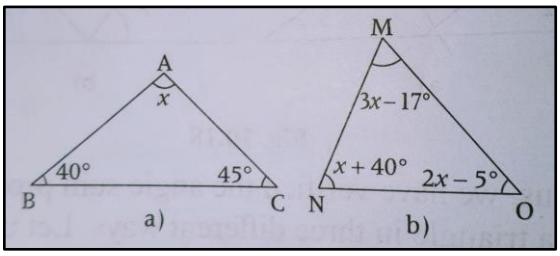
MATHS

1. Find the measure of ***x*** and ***y*** in the following figures

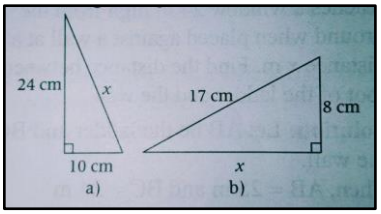




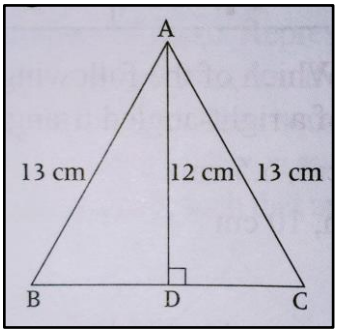
2. In APQR, measure of ∠P = 80° and ∠Q = 65°. Find the measure of the exterior angle at vertex R.
3. Find the value of ***x*** in the following figures



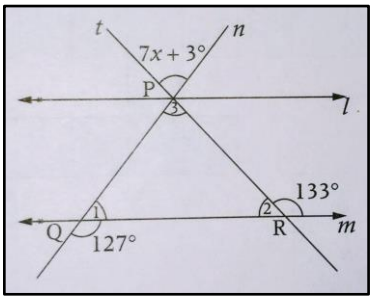
4. The three angles of a triangle are in the ratio 1: 2: 3. Find the measure of each angle.
5. The measure of one of the acute angles of a right-angled triangle is 48°. Find the measure of other acute angle.
6. In ΔABC, AD is the median. Show that AB+BC+AC > 2AD.
7. The lengths of two sides of a triangle are 12 cm and 15 cm. Between what two measures should the length of the third side fall?
8. Find the value of ***x*** in the given figure



9. A 10 m long ladder is placed against a wall. The foot of the ladder is 6 m from the wall. How far up the wall does the top of the ladder reach?
10. A man goes 10 m east and then 24 m north. Find the distance between the initial and final positions.
11. In ΔABC, AD perpendicular to BC. Find the length of BC.



12. Find the value of ***x***



13. Draw a line, say XY. Through a point Z outside it, draw a line parallel to XY using ruler and compasses only.
14. Construct a ΔABC such that CB = 6 cm, CA=4.8 cm and BA = 5.2 cm.
15. Construct a APQR with PR = 8 cm and PQQR6 cm. Measure ∠P and R. What type of triangle is this?
16. Construct a ΔPQR with PQ = 4.9 cm, QR = 3.8 cm and ZQ = 120°.
17. Construct a AABC such that AB = 6 cm, BAC=45° and ∠ABC = 60°.
18. Is it possible to construct a ΔLMN, where LM=5 cm, L = 70° and ZM=130°? Give reason.
19. Construct a ΔPQR with ∠P=60°, ∠Q=30° and PQ = 4.8 cm. Measure R. What type of triangle is this?
20. Construct a right-angled AABC where ∠ACB = 90°, AB = 13 cm and BC = 5 cm.