Date: 25/9/2021

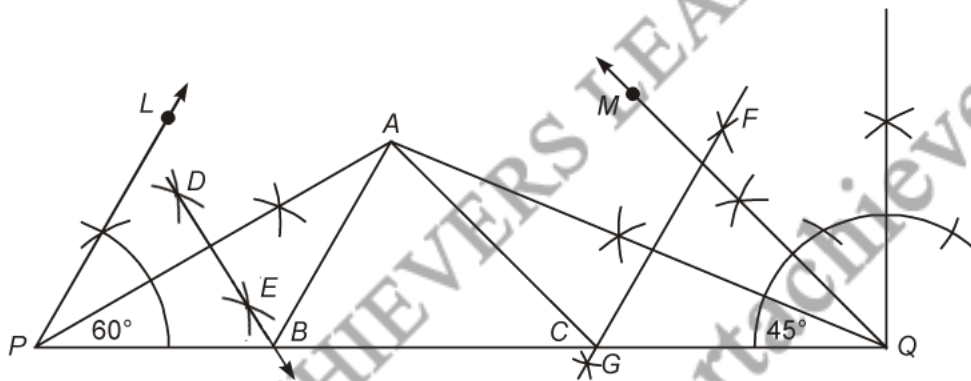**Q1.** Construct an angle of 90° at the initial point of a given ray and justify the construction.

Q2. Construct the angle of the following measurement: 30°.

Q3. Construct an angle of 45° at the initial point of a given ray and justify the construction.

Q4. Construct an equilateral triangle, given its side and justify the construction.

Q5. Construct the angle of the following measurement:

$$22\frac{1}{2}^\circ.$$

Q6. Construct the following angle and verify by measuring them by a protractor: 75°.

Q7. Construct the following angle and verify by measuring them by a protractor: 105°.

Q8. Construct the following angle and verify by measuring them by a protractor: 135°.

Q9. Construct the angle of the following measurement: 15°.

Q10. Construct a triangle ABC in which $BC = 7$ cm, $\angle B = 75°$ and $AB + AC = 13$ cm.

Q11. Construct a triangle ABC in which $BC = 8$ cm, $\angle B = 45°$ and $AB - AC = 3.5$ cm.

Q12. Construct a triangle ABC, in which $\angle B = 60°$, $\angle C = 45°$ and $AB + BC + CA = 11$ cm.

Q13. Construct a triangle XYZ in which $\angle Y = 30°$, $\angle Z = 90°$ and $XY + YZ + ZX = 11$ cm.

Q14. Construct a triangle PQR in which $QR = 6$ cm, $\angle Q = 60°$ and $PR - PQ = 2$ cm.

Q15. Construct a right triangle whose base is 12 cm and sum of its hypotenuse and other side is 18 cm.

S1. Try yourself.

S2. Try yourself.

S3. Try yourself.

S4. Try yourself.

S5. Try yourself.

S6. Try yourself.

S7. Try yourself.

S8. Try yourself.

S9. Try yourself.

S10. Try yourself.

S11. Try yourself.

S12.

S13. Try yourself.

S14. Try yourself.

S15. Try yourself.