

- **1.** How many lines can be drawn parallel to a given line, through a point outside the given line?
- Construct a right-angled triangle whose hypotenuse measures 5 cm and one of the other sides measures 3.2 cm.
- **3.** Draw 2 parallel lines at a distance of 5 cm apart.
- 4. Construct an obtuse angled triangle which has a base of 5 cm and base angles of 30° and 110°.
- **5.** Construct a $\triangle ABC$ whose sides are AB = 3 cm, BC = 4 cm and $\angle B = 60^{\circ}$.
- 6. Draw an equilateral triangle whose each side is 4.5 cm.
- **7.** Draw an isosceles right triangle Δ PQR, such that PQ = QR = 5.8 cm.
- **8.** Construct a $\triangle PQR$ in which m $\angle P$ = 60° and m $\angle Q$ = 30°, QR = 4.8 cm.
- **9.** Draw an isosceles right-angled triangle whose hypotenuse is 5.8 cm.

10.Construct an equilateral triangle whose altitude is 4.5 cm.

11. Which of these triangle can be constructed?

- (a) $\triangle ABC \triangle ABC$, $\angle A = 85^{\circ}$, $\angle B = 115^{\circ}$, AB = 5 cm. lieve in Learning
- (b) $\triangle PQR \triangle PQR \angle Q = 30^\circ$, $\angle R = 60^\circ$, QR = 4.7 cm.
- (c) $\triangle ABC \triangle ABC BC = 2 \text{ cm}$; AB = 4 cm; AC = 2 cm.
- (d) Δ LMN Δ LMN \angle L = 60°, \angle N = 120°, LM = 5 cm.
- **12.**Which of the following sets of triangles could be the lengths of the sides of a rightangled triangle:
 - (a) 3 cm, 4 cm, 6 cm
 - (b) 9 cm, 16 cm, 26 cm
 - (c) 1.5 cm, 3.6 cm, 3.9 cm
 - (d) 7 cm, 24 cm, 26 cm