## Draw the following:

## 1. The square READ with $\mathrm{RE}=5.1 \mathrm{~cm}$

## Solution:

All the sides of a square are of the same measure, and also, all the interior angles of a square are $90^{\circ}$ measure. Therefore, the given square READ can be drawn as follows.


Rough Figure:
(1) Draw a line segment $R E$ of 5.1 cm and an angle of $90^{\circ}$ at points $R$ and $E$.

(2) As vertex A and D are 5.1 cm away from vertex $E$ and $R$, respectively, cut line segments $E A$ and RD, each of 5.1 cm from these rays.

(3) Join D to A.


READ is the required square.
2. A rhombus whose diagonals are 5.2 cm and 6.4 cm long. Solution:

In a rhombus, diagonals bisect each other at $90^{\circ} . \therefore$, the given rhombus ABCD can be drawn as follows.


## Rough Figure:

(1) Draw a line segment AC of 5.2 cm and draw its perpendicular bisector. Let it intersect the line segment AC at point O.

(2) Draw arcs of $6.4 / 2=3.2$ on both sides of this perpendicular bisector. Let the arcs intersect the perpendicular bisector at points $B$ and $D$.

(3) Join points B and D with points A and C .

$A B C D$ is the required rhombus.
3. A rectangle with adjacent sides of length 5 cm and 4 cm . Solution:

Opposite sides of a rectangle have lengths of the same measure, and also, all the interior angles of a rectangle are $90^{\circ}$ measure. The given rectangle ABCD may be drawn as follows.

Rough figure:

(1) Draw a line segment AB of 5 cm and an angle of $90^{\circ}$ at points A and B .

NCERT Solutions for Class 8 Maths Chapter 4 Practical Geometry

(2) As vertex C and D are 4 cm away from vertex B and A , respectively, cut line segments AD and BC , each of 4 cm , from these rays.

(3) Join D to C.


ABCD is the required rectangle.
4. A parallelogram OKAY where $O K=5.5 \mathrm{~cm}$ and $\mathrm{KA}=4.2 \mathrm{~cm}$. Solution:

Opposite sides of a parallelogram are equal and parallel to each other. The given parallelogram OKAY can be drawn as follows.

Rough Figure:

(1) Draw a line segment OK of 5.5 cm and a ray at point K at a convenient angle.

(2) Draw a ray at point O parallel to the ray at K . As the vertices A and Y are 4.2 cm away from the vertices K and O , respectively, cut line segments KA and OY, each of 4.2 cm , from these rays.

(3) Join Y to A.


OKAY is the required rectangle.

