Mathematics

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(Chapter - 4) (Practical Geometry)
(Class - VIII)

Exercise 4.5

Question 1:

Draw the following:

The square READ with RE = 5.1 cm.

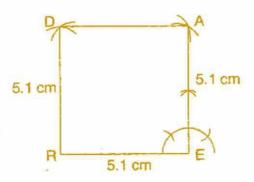
Answer 1:

Given: RE = 5.1 cm. **To construct**: A square READ.

Steps of construction:

- (i) Draw RE = 5.1 cm.
- (ii) At point E, construct an angle of 90° and draw an arc of radius 5.1 cm, which intersects at point A.
- (iii) At point R, draw an arc of radius 5.1 cm at point A, draw another arc of radius 5.1 cm which intersects the first arc at point D.
- (iv) Join AD and RD.

 It is the required square READ,



Question 2:

Draw the following:

A rhombus whose diagonals are 5.2 cm and 6.4 cm.

Answer 2:

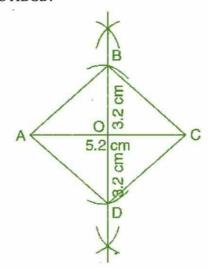
Given: Diagonals of a rhombus AC = 5.2 cm and BD = 6.4 cm.

To construct: A rhombus ABCD.

Steps of construction:

- (a) Draw AC = 5.2 cm and draw perpendicular bisectors on AC.
- (b) Since, diagonals bisect at mid-point O, therefore get half of 6.4 cm, i.e., 3.2 cm.
- (c) Draw two arcs on both sides of AC of radius 3.2 cm from intersection point O, which intersects at B and D.
- (d) Join AB, BC, CD and DA.

It is required rhombus ABCD.



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Question 3:

Draw the following:

A rectangle with adjacent sides of length 5 cm and 4 cm.

Answer 3:

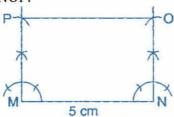
Given: MN = 5 cm and MP = 4 cm.

To construct: A rectangle MNOP

Steps of construction:

- (a) Draw a segment MN = 5 cm.
- (b) At points M and N, draw perpendiculars of lengths 4 cm and produce them.
- (c) Taking centres M and N, draw two arcs of 4 cm each, which intersect P and Q respectively.
- (d) Join side PO.

It is required rectangle MNOP.



Question 4:

Draw the following:

A parallelogram OKAY where OK = 5.5 cm and KA = 4.2 cm.

Answer 4:

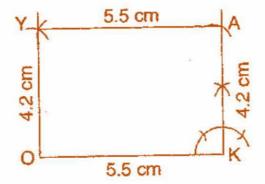
Given: OK = 5.5 cm and KA = 4.2 cm.

To construct: A parallelogram OKAY.

Steps of construction:

- (a) Draw a line segment OK = 5.5 cm.
- (b) Draw an angle of 90° at K and draw an arc of radius KA = 4.2 cm, which intersects at point A.
- (c) Draw another arc of radius AY = 5.5 cm and at point O, draw another arc of radius 4.2 cm which intersect at Y.
- (d) Join AY and OY.

It is the required parallelogram OKAY.



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