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## **NCERT Solutions for Class 8 Subject-wise**

- [Class 8 Maths](#)
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- [Class 8 Science – Chemistry](#)
- [Class 8 Social Science – History](#)
- [Class 8 Geography](#)
- [Class 8 General Knowledge](#)
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**#463393**

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Construct the following quadrilaterals.

(i) Quadrilateral  $ABCD$

$$AB = 4.5cm$$

$$BC = 5.5cm$$

$$CD = 4cm$$

$$AD = 6cm$$

$$AC = 7cm$$

(ii) Quadrilateral  $JUMP$

$$JU = 3.5cm$$

$$UM = 4cm$$

$$MP = 5cm$$

$$PJ = 4.5cm$$

$$PU = 6.5cm$$

(iii) Parallelogram  $MORE$

$$OR = 6cm$$

$$RE = 4.5cm$$

$$EO = 7.5cm$$

(iv) Rhombus  $BEST$

$$BE = 4.5cm$$

$$ET = 6cm$$

**Solution**

1)

1. Draw AD of length 6cm.
2. Cut an arc of 7 cm from A and 4 cm from D. Their point of intersection is C.
3. Cut an arc of 4.5 cm from A and 5.5 cm from C. Their point of intersection is B.
4. Join all the points.

ABCD is the required quadrilateral.

2)

1. Draw UM of length 4 cm.
2. Cut an arc of 6.5 cm from U and 5 cm from M. Their point of intersection is P.
3. Cut an arc of 3.5 cm from U and 4.5 cm from P. Their point of intersection is J.
4. Join all the points.

JUMP is the required quadrilateral.

3)

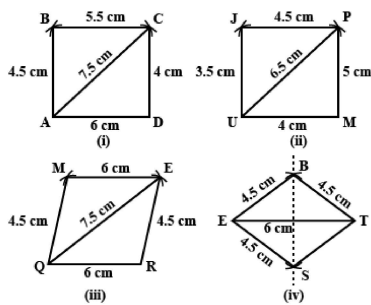
1. Draw OR of length 6cm.
2. Cut an arc of 7.5 cm from O and 4.5 cm from R. Their point of intersection is E.
3. Cut an arc of 4.5 cm from O and 6 cm from E. Their point of intersection is M.
4. Join all the points.

MORE is the required parallelogram.

4)

1. Draw ET of length 6 cm.
2. Draw its perpendicular bisector.
3. Cut an arc of 4.5 cm from E on the perpendicular bisector both above and below ET, the point of intersections are B and S.
4. Join all the points.

BEST is the required rhombus



Construct following quadrilaterals

(i) Quadrilateral *LIFT*

$$LI = 4 \text{ cm}$$

$$IF = 3 \text{ cm}$$

$$TL = 2.5 \text{ cm}$$

$$LF = 4.5 \text{ cm}$$

$$IT = 4 \text{ cm}$$

(ii) Quadrilateral *GOLD*

$$OL = 7.5 \text{ cm}$$

$$GL = 6 \text{ cm}$$

$$GD = 6 \text{ cm}$$

$$LD = 5 \text{ cm}$$

$$OD = 10 \text{ cm}$$

(iii) Rhombus *BEND*

$$BN = 5.6 \text{ cm}$$

$$DE = 6.5 \text{ cm}$$

### Solution

1)

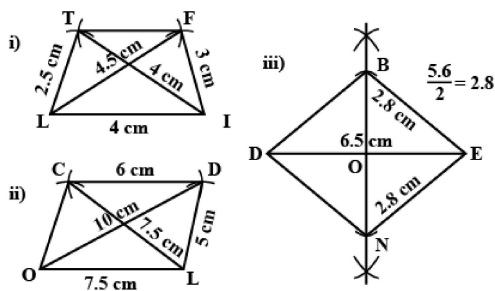
1. Draw LI of length 4 cm.
  2. Cut an arc of 2.5 cm from L and 4 cm from I. Their point of intersection is T.
  3. Cut an arc of 4.5 cm from L and 3 cm from I. Their point of intersection is F.
  4. Join all the points.
- LIFT is the required quadrilateral.

2)

1. Draw OL of length 7.5 cm.
  2. Cut an arc of 10 cm from O and 5 cm from L. Their point of intersection is D.
  3. Cut an arc of 7.5 cm from L and 6 cm from D. Their point of intersection is G.
  4. Join all the points.
- GOLD is the required quadrilateral.

3)

1. Draw DE of length 6.5 cm.
  2. Draw a perpendicular bisector of DE. The point of intersection is O.
  3. Cut an arc of 2.8 cm from O on the perpendicular bisector both above and below DE. The points of intersection are B and N.
  4. Join all the points.
- BEND is the required rhombus.



Construct the following quadrilaterals

(i) Quadrilateral *MORE*

$$MO = 6 \text{ cm}$$

$$OR = 4.5 \text{ cm}$$

$$\angle M = 60^\circ$$

$$\angle O = 105^\circ$$

$$\angle R = 105^\circ$$

(ii) Quadrilateral *PLAN*

$$PL = 4 \text{ cm}$$

$$LA = 6.5 \text{ cm}$$

$$\angle P = 90^\circ$$

$$\angle A = 110^\circ$$

$$\angle N = 85^\circ$$

(iii) Parallelogram *HEAR*

$$HE = 5 \text{ cm}$$

$$EA = 6 \text{ cm}$$

$$\angle R = 85^\circ$$

(iv) Rectangle *OKAY*

$$OK = 7 \text{ cm}$$

$$KA = 5 \text{ cm}$$

**Solution**

1)

1. Draw  $MO$  of length 6 cm.
2. Draw an angle of  $105^\circ$  degree on  $O$  and cut an arc of 4.5 cm on it. The point of intersection is  $R$ .
3. Draw an angle of  $105^\circ$  degree on  $R$  and draw an angle of  $60^\circ$  degree on  $M$ . Their point of intersection is  $E$ .
4. Join all the points.

$MORE$  is the required quadrilateral.

2)

1. Draw  $PL$  of length 4 cm.
  2. Calculate the value of  $\angle L$ , which comes out to be  $75^\circ$ .
- Draw an angle of  $75^\circ$  on  $L$  and cut an arc of 6.5 cm on it. The point of intersection is  $A$ .
3. Draw an angle of  $110^\circ$  on  $A$  and draw an angle of  $90^\circ$  on  $P$ . Their point of intersection is  $N$ .
  4. Join all the points.

$PLAN$  is the required quadrilateral.

3)

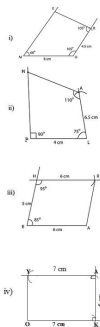
1. Draw  $EA$  of length 6 cm.
2. Draw an angle of  $85^\circ$  on  $E$  and cut an arc of 5 cm on it. The point of intersection is  $H$ . ( $\angle R = \angle E = 85^\circ$  and  $\angle H = 95^\circ$ )
3. Draw an angle of  $95^\circ$  on  $H$  and cut an arc of 6 cm. Their point of intersection is  $R$ .
4. Join all the points.

$HEAR$  is the required parallelogram.

4)

1. Draw  $OK$  of length 7 cm.
2. Draw an angle of  $90^\circ$  on  $K$  and cut an arc of 5 cm on it. The point of intersection is  $A$ .
3. Draw an angle of  $90^\circ$  on  $A$  and cut an arc of 7 cm from  $A$ . The point of intersection is  $Y$ .
4. Join all the points.

$OKAY$  is the required rectangle.



Construct the following quadrilaterals

(i) Quadrilateral  $DEAR$

$$DE = 4 \text{ cm}$$

$$EA = 5 \text{ cm}$$

$$AR = 4.5 \text{ cm}$$

$$\angle E = 60^\circ$$

$$\angle A = 90^\circ$$

(ii) Quadrilateral  $TRUE$

$$TR = 3.5 \text{ cm}$$

$$RU = 3 \text{ cm}$$

$$UE = 4 \text{ cm}$$

$$\angle R = 75^\circ$$

$$\angle U = 120^\circ$$

### Solution

1)

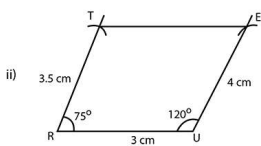
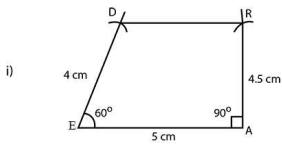
1. Draw  $EA$  of length  $5 \text{ cm}$ .
2. Draw an angle of  $60^\circ$  degree on  $E$  and cut an arc of  $4 \text{ cm}$  on it. The point of intersection is  $D$ .
3. Draw an angle of  $90^\circ$  degree on  $A$  and cut an arc of  $4.5 \text{ cm}$  on it. The point of intersection is  $R$ .
4. Join all the points.

$DEAR$  is the required quadrilateral.

2)

1. Draw  $RU$  of length  $3 \text{ cm}$ .
2. Draw an angle of  $75^\circ$  degree on  $R$  and cut an arc of  $3.5 \text{ cm}$  on it. The point of intersection is  $T$ .
3. Draw an angle of  $120^\circ$  degree on  $U$  and cut an arc of  $4 \text{ cm}$ . The point of intersection is  $E$ .
4. Join all the points.

$TRUE$  is the required quadrilateral.



### #463398

Draw the following:

The square READ with  $RE = 5.1 \text{ cm}$ .

### Solution





**#463402**

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Draw the following

A parallelogram OKAY where  $OK = 5.5\text{ cm}$  and  $KA = 4.2\text{ cm}$ . Is it unique?

**Solution**

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Only two dimensions of the parallelogram are given.

Hence, more than one parallelograms can be constructed.

So, not unique.