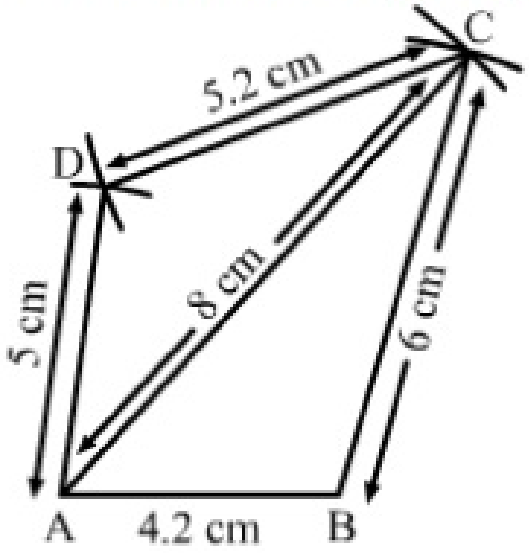
Exercise 17A

Q1

Answer :

Steps of construction:
Step 1: Draw $\mathbf{AB} = 4.2\ \mathbf{cm}$.
Step 2: With A as the centre and radius equal to $8\ \mathbf{cm}$, draw an arc.
Step 3: With B as the centre and radius equal to $6\ \mathbf{cm}$, draw another arc, cutting the previous arc at C.
Step 4: Join BC.
Step 5: With A as the centre and radius equal to $5\ \mathbf{cm}$, draw an arc.
Step 6: With C as the centre and radius equal to $5.2\ \mathbf{cm}$, draw another arc, cutting the previous arc at D.
Step 7: Join AD and CD.

Thus, ABCD is the required quadrilateral.

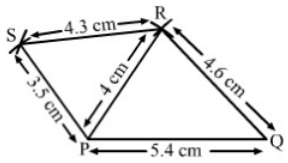


Q2

Answer :

Steps of construction:
Step 1: Draw $\mathbf{PQ = 5.4\ cm}$.
Step 2: With P as the centre and radius equal to $\mathbf{4\ cm}$, draw an arc.
Step 3: With Q as the centre and radius equal to $\mathbf{4.6\ cm}$, draw another arc, cutting the previous arc at R.
Step 4: Join QR.
Step 5: With P as the centre and radius equal to $\mathbf{3.5\ cm}$, draw an arc.
Step 6: With R as the centre and radius equal to $\mathbf{4.3\ cm}$, draw another arc, cutting the previous arc at S.
Step 7: Join PS and RS.

Thus, PQRS is the required quadrilateral.

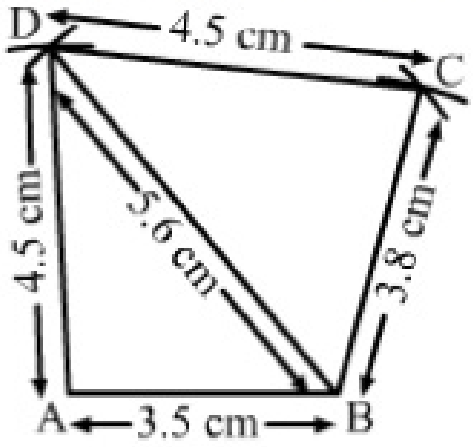


Q3

Answer :

Steps of construction:
Step 1: Draw $\mathbf{AB = 3.5\ cm}$.
Step 2: With B as the centre and radius equal to $\mathbf{5.6\ cm}$, draw an arc.
Step 3: With A as the centre and radius equal to $\mathbf{4.5\ cm}$, draw another arc, cutting the previous arc at D.
Step 4: Join BD and AD.
Step 5: With D as the centre and radius equal to $\mathbf{4.5\ cm}$, draw an arc.
Step 6: With B as the centre and radius equal to $\mathbf{3.8\ cm}$, draw another arc, cutting the previous arc at C.
Step 7: Join BC and CD.

Thus, ABCD is the required quadrilateral.



Q4

Answer :

Steps of construction:
Step 1: Draw $\mathbf{AB = 3.6\ cm}$.

********** END **********