16 CONSTRUCTION OF QUADRILATERALS

Q1. Construct a quadrilateral ABCD, such that AB = 6 cm, BC = 5 cm, CD = 4 cm, AD = 3 cm and BD = 6 cm.

Q2. Construct a quadrilateral PQRS, such that RS = 5 cm, RQ = 4 cm, PS = 3 cm, SQ = 6 cm and RP = 6.5 cm.

Q3. Construct a quadrilateral WXYZ, such that $\angle Z = 60°$, $\angle Y = 45°$, ZY = 5 cm, WZ = 3 cm and XY = 3.5 cm

Q4. Construct a quadrilateral EFGH when HG = 5.2 cm, FG = 4.1 cm, $\angle H = 120°$, $\angle G = 60°$ and $\angle F = 90°$. Find $\angle E$.

Q5. Construct a quadrilateral JKLM when JK = 3.5 cm, $\angle K = 120°$, KL = 3.2 cm, JM = 2.5 cm and ML = 5 cm.

Q6. Construct a quadrilateral MNOP when OP = 5.5 cm, $\angle O = 60°$, ON = 2.7 cm, PM = 1.8 cm and OM = 6.1 cm.

Q7. Construct a rectangle ABCD, such that AB = 4.5 cm and BC = 3 cm.

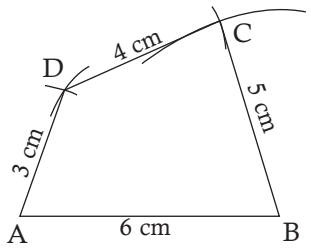
Q8. Construct a square whose sides measure 4.3 cm each.

Q9. Construct a parallelogram WXYZ, such that its adjacent sides ZY and XY measure 6.2 cm and 2.5 cm respectively, and $\angle Z = 60°$.

Q10. Construct a rhombus ABCD when CD = 4.3 cm, $\angle D = 45°$.

Answers

1.



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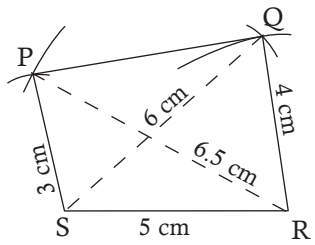

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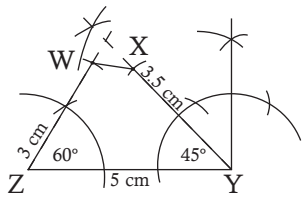
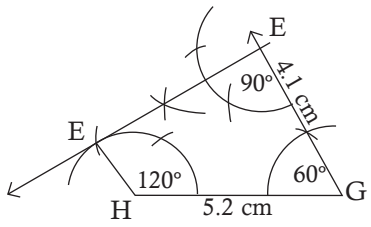


4. $\angle E = 90°$



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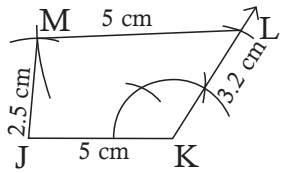

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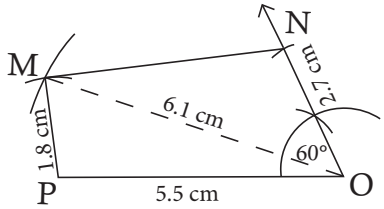

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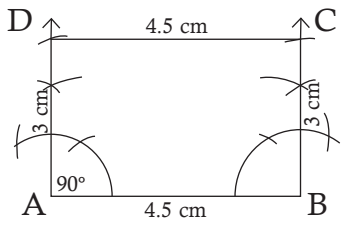
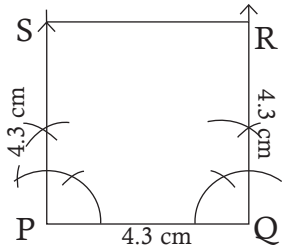
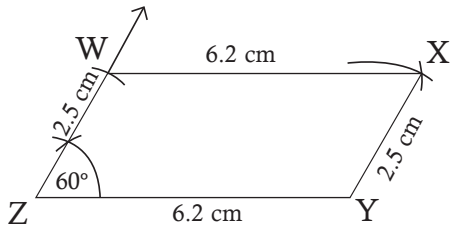

D
4.5 cm
C
3 cm
3 cm
90°
A
4.5 cm
B

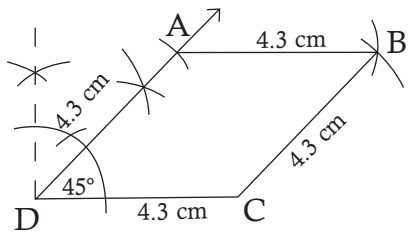
8.


S
R
4.3 cm
4.3 cm
P
4.3 cm
Q

9.


W
6.2 cm
X
2.5 cm
2.5 cm
60°
Z
6.2 cm
Y

10.


A
4.3 cm
B
4.3 cm
4.3 cm
45°
D
4.3 cm
C