16 CONSTRUCTION OF QUADRILATERALS

Q1. Construct a quadrilateral WXYZ, such that WX = 3.3 cm, XY = 2 cm, YZ = 2.6 cm, WZ = 1.6 cm and WY = 2.9 cm.

Q2. Construct a quadrilateral ABCD, such that AB = 6.3 cm, BC = 2.4 cm, AD = 3.1 cm, AC = 5.2 cm and BD = 4.6 cm.

Q3. Construct a quadrilateral PQRS, such that $\angle S = 30°$, $\angle R = 90°$, SR = 5.2 cm, PS = 3.6 cm and RQ = 2.6 cm.

Q4. Construct a quadrilateral JKLM when JK = 5.8 cm, KL = 2.9 cm, $\angle J = 30°$, $\angle K = 120°$ and $\angle L = 45°$. Find $\angle M$.

Q5. Construct a quadrilateral ABCD when AB = 4.3 cm, $\angle B = 60°$, BC = 2.1 cm, AD = 2.2 cm and CD = 3 cm.

Q6. Construct a quadrilateral MNOP when MN = 4.5 cm, $\angle N = 90°$, ON = 2.4 cm, PN = 4.6 cm and PM = 2 cm.

Q7. Construct a rectangle PQRS such that PQ = 4 cm and QS = 5 cm.

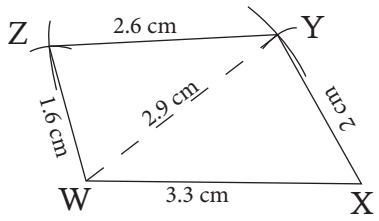
Q8. Construct a square WXYZ whose diagonals measure 5 cm.

Q9. Construct a parallelogram JKLM, such that its adjacent sides JK and KL measure 3.5 cm and 2.4 cm respectively, and KM = 4.2 cm.

Q10. Construct a rhombus ABCD, such that each side measures 4.5 cm and one of the diagonals measures 6.7 cm. Find the measure of the other diagonal.

Answers

1.



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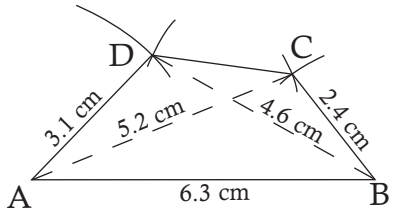

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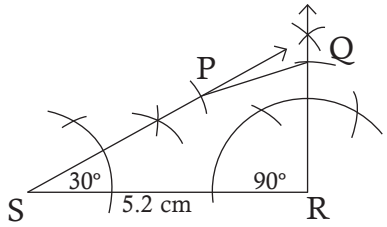

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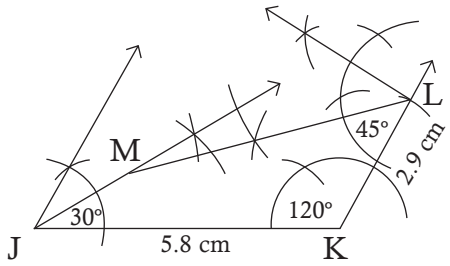
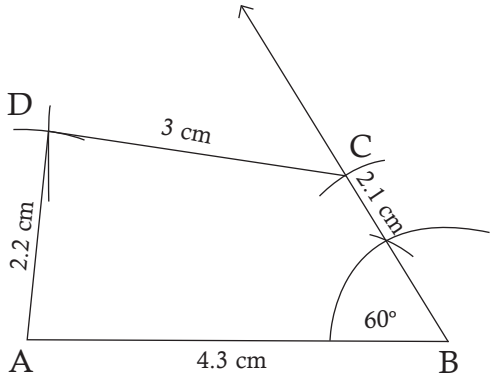


$\angle M = 165°$

5.



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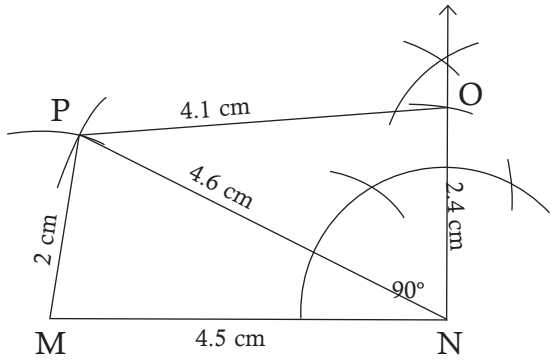
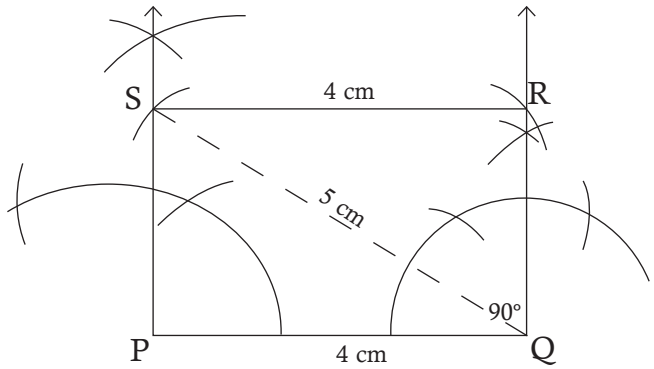
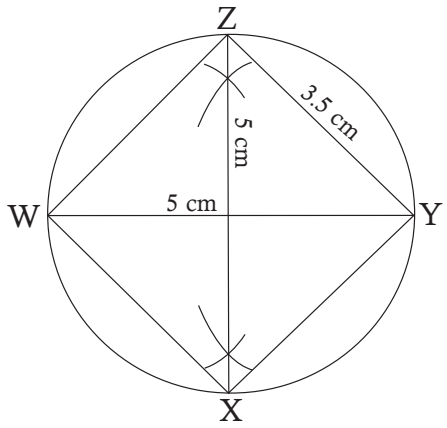

P
4.1 cm
O
4.6 cm
2.4 cm
2 cm
90°
M
4.5 cm
N

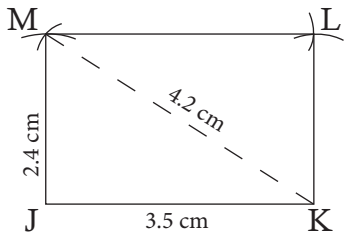
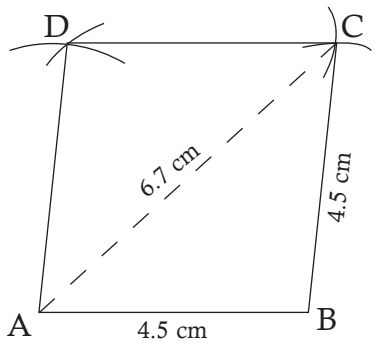
7.


S
4 cm
R
5 cm
90°
P
4 cm
Q

8.


Z
3.5 cm
5 cm
W
5 cm
Y
X

9.


M
L
4.2 cm
2.4 cm
J
3.5 cm
K

10. BD = 6 cm