

1. Construct a quadrilateral ABCD in which $AB = AD = 3.1$ cm, $BC = 2.6$ cm, $AC = 4$ cm and $BD = 5$ cm.
2. Construct a quadrilateral LMNO in which $LM = 4$ cm, $MN = 5.8$ cm, $NO = 5$ cm, $OL = 4.8$ cm and $LN = 7.8$ cm.
3. Construct a quadrilateral ABCD in which $AB = 3.7$ cm, $BC = 3.4$ cm, $AD = 2.8$ cm, diagonal $AC = 4.7$ cm and diagonal $BD = 4.2$ cm.
4. Construct a quadrilateral PQRS in which $PQ = PS = 6$ cm, $QR = 7.5$ cm, $RS = 5$ cm and $QS = 10$ cm.
5. Construct a quadrilateral ABCD in which $AB = BC = 3.7$ cm, $AD = CD = 5.2$ cm and $\angle ABC = 120^\circ$.
6. Construct a quadrilateral ABCD in which $AB = 3$ cm, $BC = 3.4$ cm, $CD = 2.9$ cm, $DA = 3.6$ cm and $\angle A = 75^\circ$.
7. Construct a quadrilateral CDEF in which $CD = 3.5$ cm, $DE = 5$ cm, $EF = 4.6$ cm. $\angle C = 125^\circ$ and $\angle D = 60^\circ$.
8. Construct a quadrilateral LMNO in which $LM = 6.2$ cm, $MN = 5.8$ cm, $NO = 2.9$ cm, $\angle M = 45^\circ$ and $\angle N = 90^\circ$.
9. Construct a quadrilateral ABCD in which $AB = 3.5$ cm, $BC = 6.5$ cm, and its 3 angles $\angle A = 75^\circ$, $\angle B = 105^\circ$ and $\angle C = 110^\circ$.
10. Construct a quadrilateral PQRS in which $PQ = 3.8$ cm, $QR = 6.8$ cm, and 3 angles $\angle P = 100^\circ$, $\angle R = 110^\circ$ and $\angle S = 75^\circ$.

1. Construct a rectangle ABCD with $AB = 6.3$ cm and $BC = 4.4$ cm.
2. Construct a rectangle ABCD with $AC = 8.4$ cm and $AB = 6.2$ cm
3. Construct a square with the length of the diagonal 7.4 cm.
4. Construct a rhombus with side 4.8 cm and one diagonal 8 cm.
5. Construct a parallelogram PQRS in which $PQ = 4$ cm, $QR = 5.5$ cm and $\angle P = 70^\circ$.
6. Construct a parallelogram ABCD in which $AB = 3.5$ cm, $BC = 4$ cm and $AC = 6.5$ cm.
7. Construct a trapezium ABCD in which $AB = 6$ cm, $BC = 4$ cm, $CD = 3.2$ cm, $\angle B = 75^\circ$ and $DC \parallel AB$.
8. Construct a rhombus when the length measures of the diagonals are 4.8 cm and 6.4 cm.
9. Construct a square with the length of the diagonal 5.8 cm.
10. Construct a trapezium PQRS in which $PQ \parallel SR$, $PQ = 6.8$ cm, $QR = 4.8$ cm, $PS = 6.3$ cm and $\angle Q = 60^\circ$.

1. Fill in the blanks.
 - a) A unique quadrilateral can be constructed, If elements are given.
 - b) The sum of the angles of a quadrilateral =.....
 - c) In a parallelogram, the consecutive angles are.....
 - d) All sides of a rhombus are
 - e) The angles of a rectangle measure
2. State true or false.
 - a) Given the length of diagonals we can construct a rhombus.
 - b) It is possible to construct a quadrilateral with the length of a sides as 7 cm and 6 cm and its angles measuring. 120° , 145° and 150° :
 - c) Given three angles and one side we can construct a rhombus.
 - d) Every parallelogram is a rhombus.
 - e) All squares are parallelograms. .
3. Construct a rectangle with sides 4 cm and 2 cm.
4. Construct a parallelogram with one side 6 cm and diagonals as 6 cm and 8 cm. (hint: diagonals of a parallelogram bisect each other).
5. Construct a quadrilateral with AB 4 cm, BC = 5.9 cm, CD = 5.2 cm, DA = 5.5 cm and diagonal AC 7.5 cm.
6. Construct a parallelogram ABCD, AB =8 cm, BC =5 cm, $\angle A = 70^\circ$, $\angle B = 110^\circ$.