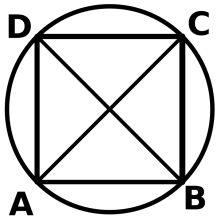
Chathurbhujangalude Nirmith

Question.1. In the figure AC and BD are the perpendicular diameters of the circle.[Marks : (4)]

a) . What is the suitable name of the quadrilateral ABCD?.

b)Using this idea , draw

a square with diagonal 6 cm long



Ans. Square

Draw a digonal 6 cm long

draw a perpendicular bisector

For complting the square

Question.2. In the quadrilateral PQRS, PQ = 6.5 cm., QR = 4.5cm., RS = 8 cm., PS = 5.5 cm., Then,[Marks :(4)]

a). Which among the following may be the length of PR

(12cm.,2.5cm, 11cm, 3.5cm.)

b). Draw the the quadrilateral PQRS

Ans. 3.5 cm

Drawing quadrilateral (3)

Question.3. In the quadrilateral ABCD, AB =8 cm., BC = 6cm., AC = 8 cm., AD = 5 cm., BD = 7cm. Draw the the quadrilateral ABCD[Marks :(4)]

Ans. Drawing quadrilateral (4)

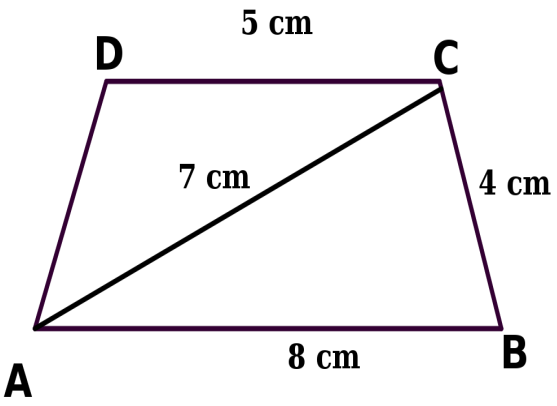
Question.4. In the quadrilateral ABCD, AB = 7 cm., BC = 5.5 cm., CD = 6 cm., AD = 4.5 cm., ∠A = 70°. Draw the the quadrilateral ABCD[Marks :(4)]

Ans. Drawing quadrilateral (4)

Question.5. In the figure AB is parallel to DC. AB = 8cm., CD = 5 cm., BC = 4 cm., and AC = 7cm., then,[Marks :(4)]

a). Write the appropriate name of the quadrilateral ABCD

b). Draw ABCD with the given measures



Ans. Trapezium

For drawing tiangle ABC

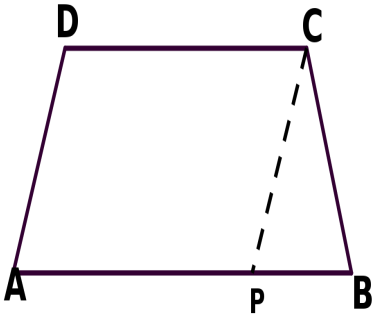
Draw a line AB is parallel to DC

For drawing trapezium ABCD

Question.6. In the figure AB is parallel to CD. AB = 7 cm., CD = 4cm., ∠ A= 60° , ∠ B = 50° [Marks :(5)]

a). If AD is parallel to PC, What is the length of PB?

b). Draw trapezium ABCD



Ans. PB = 3cm

For drawing trianglePBC

Draw trapezium ABCD

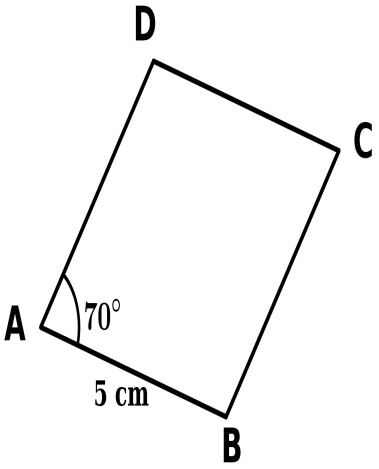
Question.7. The parallel sides of trapezium are 8 cm., 5 cm., and the other two sides are 3cm, 4 cm. Draw the trapezium[Marks :(4)]

Ans. For drawing trapezium (4)

Question.8. ABCD is a rhombus, AB = 5 cm and ∠A = 70°[Marks :(4)]

a). What is the length of AD?.

b). Draw a rhombus with side 5 cm and one angle 70°



Ans. AD = 5 cm

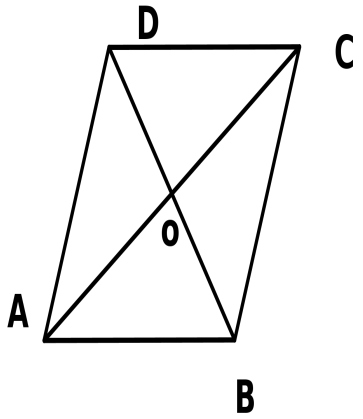
For drawing rhombus

Question.9. ABCD is a rhombus. If AC = 8 cm, BD = 6 cm then[Marks :(3)]

a). Find ∠AOB ?.

b). Find the length of OA

c). Construct the rhombus ABCD with the length of diagonals 8 cm, 6 cm.



Ans. ∠AOB = 90°

OA = 4 cm

completing the figure. (3)

Question.10. Draw a rectangle with one side 8 cm., and a diagonal = 10 cm.[Marks :(3)]

Ans. Draw a rectangle with one side 8 cm. (3)

Question.11. In a rhombus ABCD, AB = 5 cm, ∠A = 100°[Marks :(4)]

a). What is the measurement of ∠B ?.

b). construct rhombus ABCD

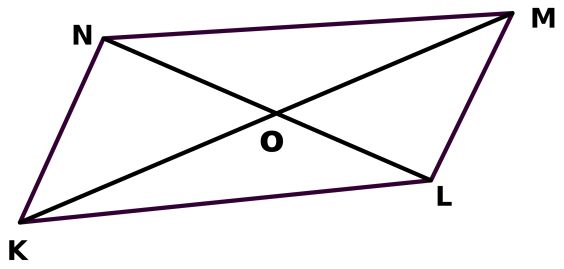
Ans. ∠B = 80**°**

For drawing rhombus (3)

Question.12. In the figure, KLMN is a parallelogram and if, KM = 7 cm., LN = 6 cm., KL = 5 cm., then,[Marks :(4)]

a). Find the length of OK and OL

b). Draw parallelogram KLMN with two diagonals 7 cm, 6 cm and one of its side is 5 cm.



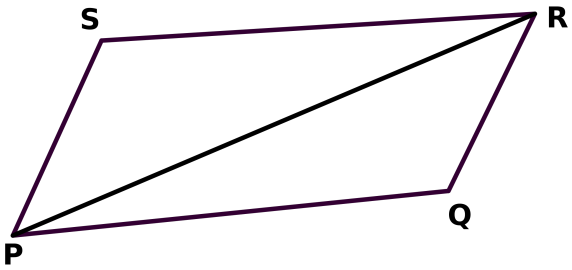
Ans. OK = 3.5 cm , OL = 2.5 cm

For drawing parallelogram (3)

Question.13. PQRS is parallelogram, PQ = 6 cm. QR = 5 cm., PR = 8 cm.,[Marks :(4)]

a). Find the length of PS and SR

b). Draw a para llelogram with sides of length 6cm. , 5 cm and the one of the diagonal 8cm ?



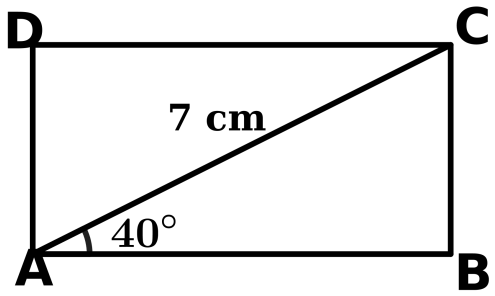
Ans. PS = 5 cm. SR = 6cm.

Drawing a parallelogram (3)

Question.14. In the figure, ABCD is a rectangle. Also, AB = 7 cm, ∠CAB = 40°.[Marks :(4)]

a) Write the measures of the angles ∠ABC and ∠ACB

b). Construct the rectangle with given measures



Ans. ∠ABC = 90° , ∠ACB = 50°

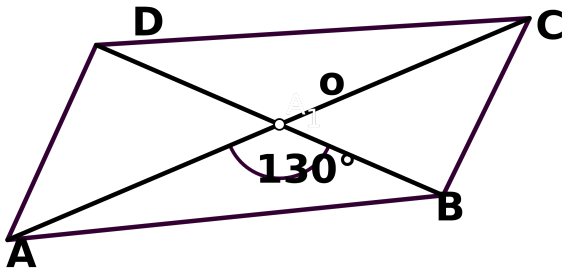
for drawing figure (3)

Question.15. ABCD is a parallelogram.[Marks :(4)]

AC = 10 cm, BD = 7 cm

a). Find the length of OA and OB

b). Draw a parallelogram with diagonals having length 10 cm and 7 cm. And angle between them is 130°



Ans. OA = 5 cm, OB = 3.5 cm

For drawing parallelogram (3)

Question.16. One diagonal of a square is 6.5 cm[Marks :(4)]

a) What is the length of second diagonal?

b) Construct the square

Ans. a)Draw the second digonal 6.5cm long

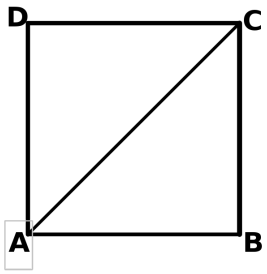
b) For drawing perpendilculr bisector.

Draw a circle with center as bisecting points

For completing the square.

Question.17. a). ABCD is a square.Write the measures of ∠ABC and ∠BAC ?[Marks :(5)]

b). Draw a square with its diagonal 6 cm.



Ans. ∠ABC = 90° , ∠BAC = 45° (1)

Draw a line legth 6 cm (1)

Draw an of 45°, 45° and its opposit sides (1)

for completion of square (2)

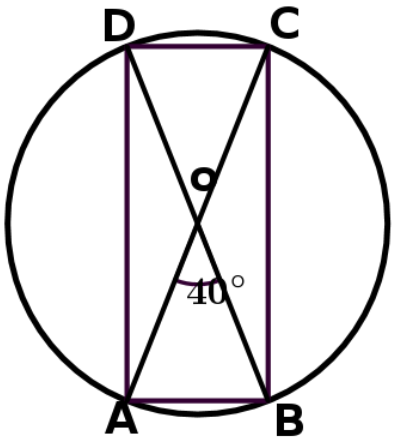
Question.18. In the figure O is the centre of the circle. AC = 7 cm.,[Marks :(4)]

∠AOB = 40° , then

a). What is the length of BD?.

b). what is the measure of ∠ ABC

c). Draw a rectangle with diagonal of length 7 cm., and the angle between the diagonal is 40°

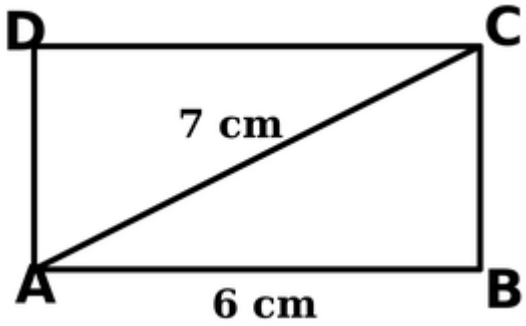


Ans. BD = 7cm

∠ ABC = 90°

For drawing figure

Question.19.



In figure ABCD is a rectangle. AB = 6 cm, AC = 7 cm.[Marks :(4)]

a) Find the measure of ∠ABC .

b) Draw triangle ABC

c) The length of a rectangle is 6cm and length of its diagonal is 7cm. Draw the rectangle.

Ans. a). ∠ABC = 90°

b) For drawing triangle

c)For drawing rectangle