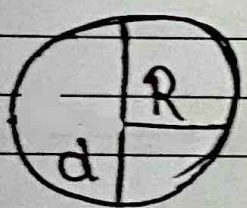
Ch-04

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Constructing Shapes

⇒ Notes :-

1. Circle :- It has a centre
   - Line from centre to any boundary is Radius
   - Diameter is line passing throughone end to another.

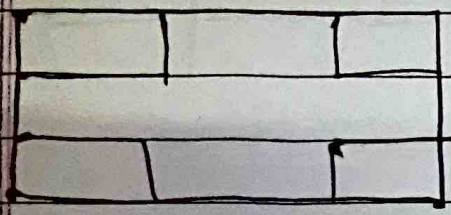


2. Rectangle :-
   - Opposite sides are equal.
   - Diagonals are equal.

3. Square :-
   - All sides and angles are 90°
   - Diagonals are equal diagnols into halves of 45°.

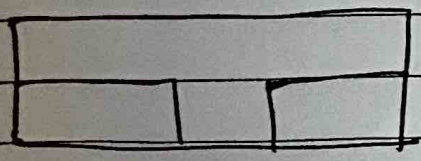
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4. Opposite Angle:

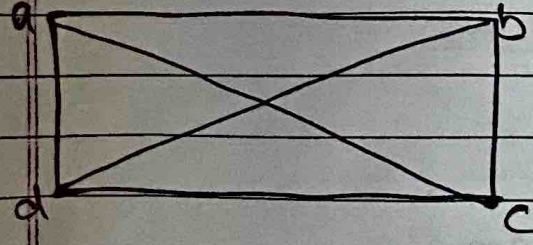


- Line is opposite to each other.

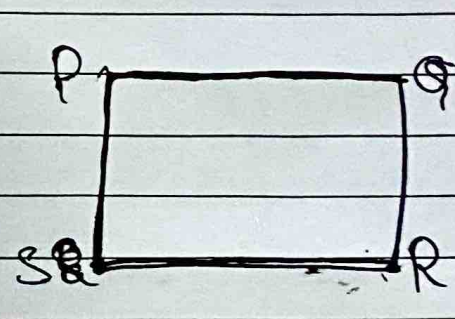
5. Adjacent Angle.



- They have a common Arm.



Vertices - A, B, C, D
Angle - ∠A, ∠B, ∠C, ∠D
Side - AB, BC, CD, DA
diagnole - BD, AC



Vertices - P, Q, R, S
Angle - ∠P, ∠Q, ∠R, ∠S
Side - PQ, QR, RS, SP
diagonals - QS, PR.

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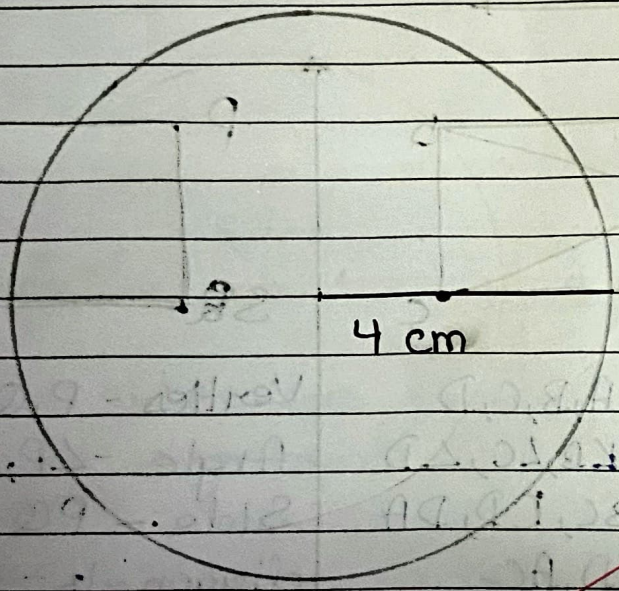
CH-4

Constructing Shapes

⇒ Exercise Time :-

Q1 Using a compass, construct a circle of radius 4cm. Mark its centre and radius.

⇒



Q2 How can you check that all points on the circle are at the same distance from the centre?

⇒ By measuring the distance from centre to several points.

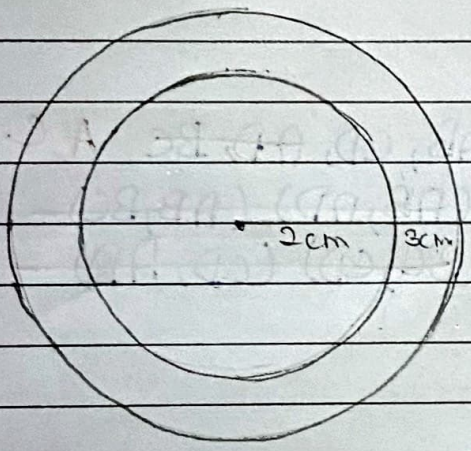
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Q3 What happens to the size of a circle when you increase the opening of the compass from 3cm to 4cm?

⇒ If radius will increase, the size of circle will also increase.

Q4 Draw two circles with the same centre but different radii 2cm and 3cm. What do you observe?

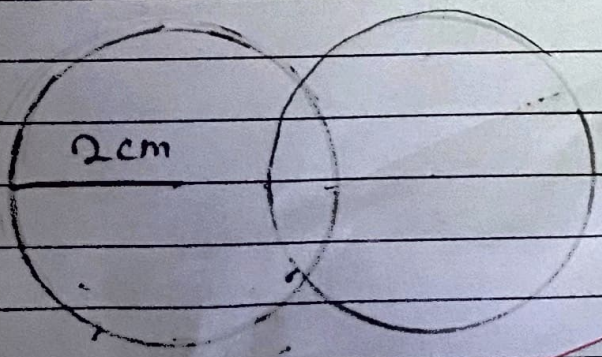
⇒



They have same centre but do not overlap.

Q5 Draw tow circles crossing each other ~~using~~ and have same radius of 2 cm.

⇒



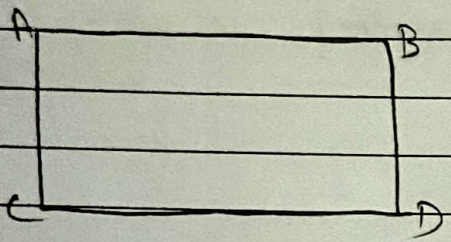
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Q6 Suppose you rotate a square by 45°. Do its sides and angles change? Explain.

⇒ No, rotation will not change angles and lines.

Q7 Look at the rectangle ABCD given alongside. Which pair of sides are rectangles." Is she correct? why or why not.

⇒



Opposite sides = ~~AB, CD, AD, BC~~ AC, BD

Adjacent sides = ~~(AB, AD) (AB, BC) (BC, CD) (CD, AD)~~

AB, BD
BD, CD
CD, AC
AC, AB

CW
Friday

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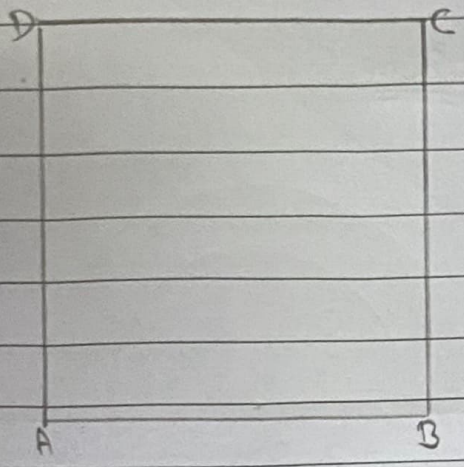
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Constructing Shapes

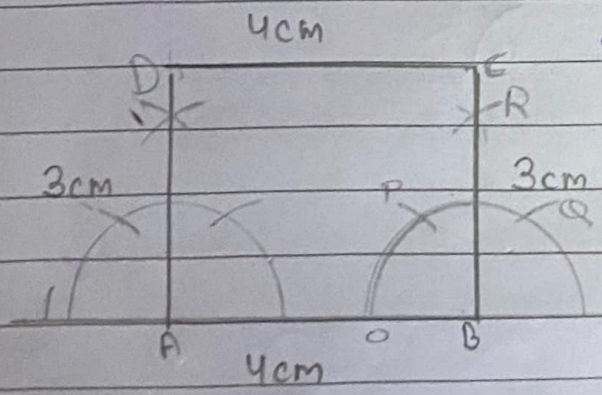
Exercise Time:

1. Construct a square of side length of 5cm.

⇒



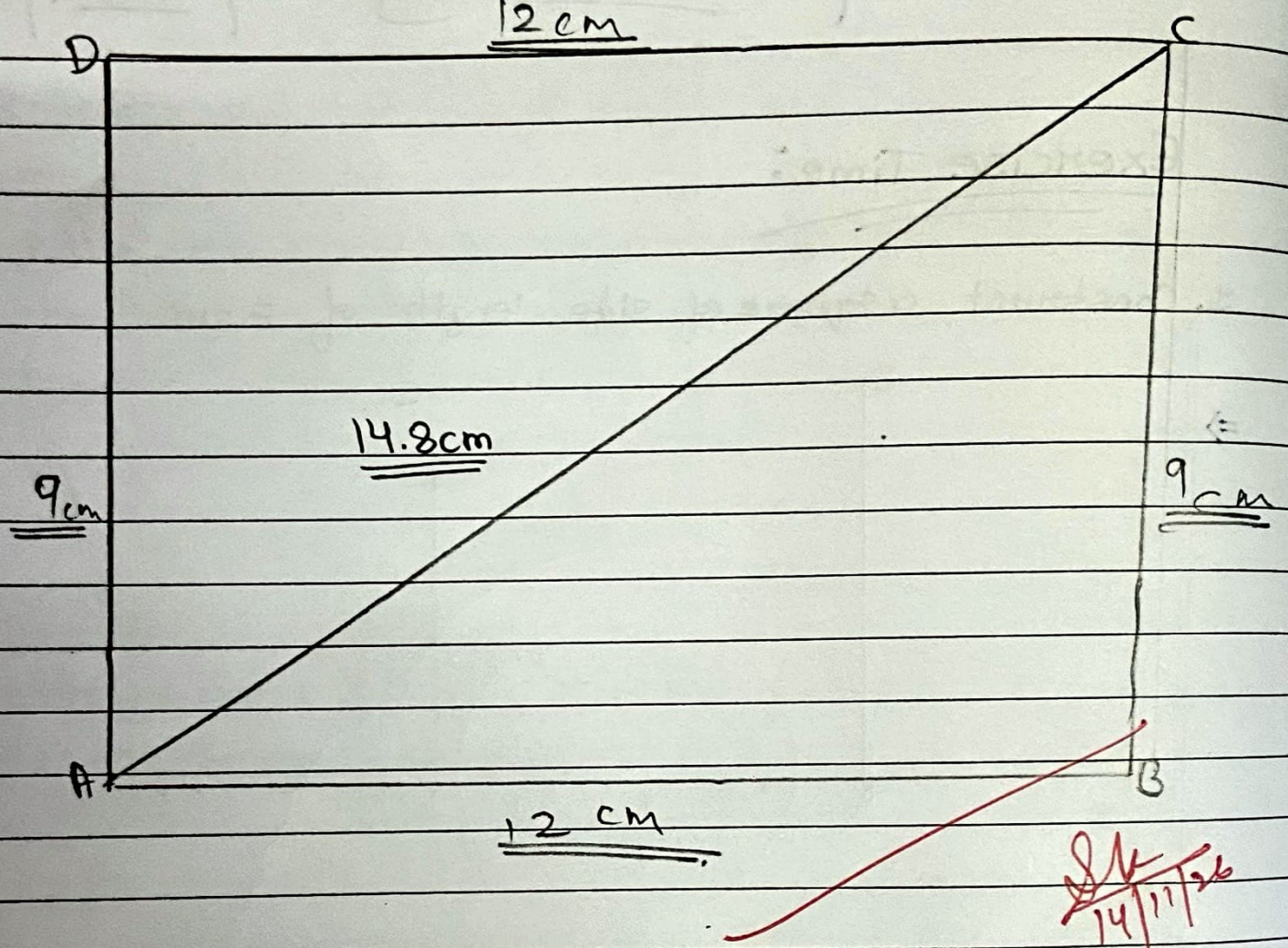
Q2 Construct ---------- compass.



1) Mak a line segment AB = 4cm
2) From B, make an arc on AB and name it O.
3) From O mark another P, and from P mark arc Q.
4) From ~~O mark~~ and Q make arcs bisecting each other at R
5) Now join B and R and using a ruller mark point C at 3 cm
6) Repeat some steps at A and ~~mark point~~ D at 3cm.
7) Now join C and D.

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M. If you ---------- lenghts.



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