



# MATHS

**BOOKS - RS AGGARWAL MATHS**

**(HINGLISH)**

**CONSTRUCTIONS ( USING RULER AND  
A PAIR OF COMPASSES )**

**Exercise 14 A**

1. Draw a line segment  $PQ = 6.2\text{cm}$ . Draw the perpendicular bisector of  $PQ$ .



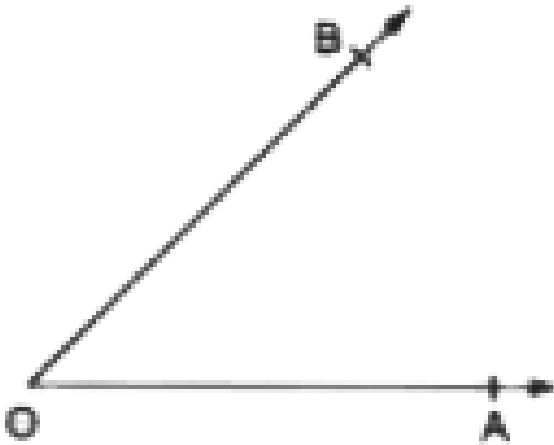
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2. Draw a line segment  $AB = 5.6\text{cm}$ . Draw the perpendicular bisector of  $AB$ .



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3. Draw an angle equal to  $\angle AOB$ , given in the adjoining figure.



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4. Draw an angle of  $50^\circ$  with the help of a protractor. Draw a ray bisecting this angle.



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5. Construct  $\angle AOB = 85^\circ$  with the help of a protractor. Draw a ray  $OX$  bisecting  $\angle AOB$ .



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6. Draw a line  $AB$ . Take a point  $P$  on it. Draw a line passing through  $P$  and perpendicular to  $AB$ .



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7. Draw a line  $AB$ . Take a point  $P$  outside it. Draw a line passing through  $P$  and perpendicular to  $AB$ .



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8. Draw a line  $AB$ . Take a point  $P$  outside it. Draw a line passing through  $P$  and parallel to  $AB$ .



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9. Draw  $\angle ABC$  of measure  $60^\circ$  such that  $AB = 4.5$  cm and  $BC = 5$  cm. Through C draw a line parallel to AB and through B draw a line parallel to AC, intersecting each other at D. Measure BD and CD.



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10. Draw a line segment  $AB = 6$  cm. Take a point C on AB such that  $AC = 2.5$  cm. Draw CD perpendicular to AB.





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11. Draw a line segment  $AB = 5.6$  cm. Draw the right bisector of  $AB$ .



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## Exercise 14 B

1. Using a pair of compasses construct the following angles:

$60^\circ$

$120^\circ$

$90^\circ$



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2. Draw an angle of  $60^\circ$ , using a pair of compasses. Bisect it to make an angle of  $30^\circ$ .



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3. Draw an angle of  $45^\circ$ , using a pair of compasses.





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4. Use a pair of compasses and construct the following angles:

$$150^\circ$$

$$15^\circ$$

$$135^\circ$$

$$22\frac{1}{2}^\circ$$

$$105^\circ$$

$$75^\circ$$

$$67\frac{1}{2}^\circ$$

$$45^\circ$$



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5. Draw a rectangle whose two adjacent sides are 5 cm and 3.5 cm . Make use of a pair of compasses and a ruler only.



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6. Draw a square. Each of whose sides is 5 cm . Use a pair of compasses and a ruler in your construction.



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## Test Paper 14 A

1. How many lines can be drawn to pass through

(i) a given point (ii) two given points (iii) three given points?



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2. Classify the angles whose magnitudes are given below.

$50^\circ$

$92^\circ$

$185^\circ$

$90^\circ$

$180^\circ$



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3. Draw the perpendicular bisector of a given the segment AB of length 6 cm.



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4. Construct an angle of  $120^\circ$  and bisect it.



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5. Construct an angle of  $90^\circ$  and bisect it.



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6. Draw a rectangle whose two adjacent sides are 5.4 cm and 3.5 cm.



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## Test Paper 14 B Mark Against The Correct Answer In Each Of The Following

1. Which of the following has no end points?

A. A line segment

B. A ray

C. A line

D. none of these

**Answer: C**



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2. Which of the following has no end points?

A. A line

B. A ray

C. A line segment

D. none of these

**Answer: B**



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**3. Which of the following has no end points?**

A. A line segment

B. A ray

C. A line



D. none of these

**Answer: A**



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**4. Two planes intersect**

A. at a point

B. in a line

C. in a plane

D. none of these

**Answer: B**



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5.  $\frac{3}{2}$  right angles = .....

A.  $115^\circ$

B.  $135^\circ$

C.  $230^\circ$

D.  $270^\circ$

**Answer: B**



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6. Where does the vertex of an angle lie?

- A. in its interior
- B. in its exterior
- C. on the angle
- D. none of these

**Answer: C**



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7. An angle measuring  $270^\circ$  is

A. an obtuse angle

B. an acute angle

C. a straight line

D. a reflex angle

**Answer: D**



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## Test Paper 14 C Fill In The Blanks

1. A line has .....end point.



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2. A ray has .....end point.

A. one

B. two

C. three

D. four

**Answer: A**



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**3. Fill in the blanks :**

A line \_\_\_\_ be drawn on a paper .



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4.  $0^\circ$  .....acute angle ..... $90^\circ$  < obtuse angle  
<  $180^\circ$  .



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5. The standard unit of measuring an angle is

..... .

A. cm

B. km

C. mm

D. degree

**Answer: D**



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**Test Paper 14 D Write T For True And F For False For Each Of The Statements Given Below**

**1. Which of the following statements are true and which are false ?**



If two line segments do not intersect, they are parallel.



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2. Which of the following statements are true and which are false ?

If two rays do not intersect, they are parallel.



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3. If two lines do not meet even when produced, they are called parallel lines.



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4. Two parallel lines are everywhere the same distance apart.



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5. A ray has a finite length.



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6. Ray  $\overrightarrow{AB}$  is the same as ray  $\overrightarrow{BA}$ .



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