

Chapter – 14

Practical geometry

Worksheet – 2

1. A perpendicular bisector divides a line segment into \_\_\_\_\_ parts.
  - a. Two unequal
  - b. Two equal
  - c. Three unequal
  - d. Three equal
2. Which of the following is not an angle of set square?
  - a. 30
  - b. 60
  - c. 75
  - d. 90
3. If diameter of a circle is 19 m, then its radius is \_\_\_\_\_.
  - a. 7.5 m
  - b. 8.5 m
  - c. 9 m
  - d. 9.5 m
4. A \_\_\_\_\_ is the longest chord of the circle?
  - a. Radius
  - b. Circumferences
  - c. Diameter
  - d. Center
5. If an angle of  $90^\circ$  is bisected twice, then each such angle obtained will measure –
  - a.  $22.5^\circ$
  - b.  $30^\circ$
  - c.  $45^\circ$
  - d.  $60^\circ$
6. If an angle of  $180^\circ$  is bisected twice, then each such angle obtained will measure –
  - a.  $60^\circ$
  - b.  $120^\circ$
  - c.  $45^\circ$

- d.  $60^\circ$
7. If angle of  $105^\circ$  is bisected, then what will be the measure of each angle formed?
- a.  $55^\circ$   
 b.  $52.5^\circ$   
 c.  $53^\circ$   
 d.  $54^\circ$
8. When a ray makes one complete rotation, the measure of angle formed is –
- a.  $90^\circ$   
 b.  $180^\circ$   
 c.  $270^\circ$   
 d.  $360^\circ$
9. Match the column:

Column A	Column B
a. Ruler	i. Is used to draw circles or arcs.
b. Compass drawing tool	ii. Has markings on it to measure length.
c. Needle point	iii. Diagonals bisect each other.
d. Square	iv. Serves as center point to draw arcs and circles by compass.

10. State true or false –
- a. Two rays that divide an angle into three equal parts are called trisectors of the angle.  
 b. Collinear points lie on the same line.  
 c. Midpoint of a line segment divides into three equal parts.  
 d. Congruent segments are segments with different lengths.
11. Draw a line segment of length 8.9 cm using a ruler?
12. Construct a parallelogram of base 8 cm and side 5 cm through set squares?
13. Construct a line segment of 6.1 cm using a ruler and a compass?
14. Construct a perpendicular bisector of line segment  $\overline{AB} = 10$  cm and measure the length of perpendicular bisector. Make use of a ruler and compass.

15. Line segment  $\overline{DE} = 5.8$  cm. Construct  $\overline{AB}$  such that  $AB = 2 \overline{DE}$  ?
16. A line segment  $\overline{PQ} = 3.4$  cm is given. Construct a line segment  $\overline{AB}$  such that  $\overline{AB} = 3 \overline{PQ}$ ?
17. Draw any line segment  $\overline{AB}$ . Without measuring  $\overline{AB}$ , construct a copy of  $\overline{AB}$ ?
18. A line segment  $\overline{AB}$  of unknown length is given. Construct a line segment  $\overline{DE}$  such that  $\overline{DE}$  is twice of  $\overline{AB}$ ?
19. Draw a line segment  $\overline{PQ}$ . Mark a point R anywhere on it. Draw a perpendicular to  $\overline{PQ}$  on point R?
20. Draw a line segment  $\overline{PQ}$ . Mark a point R at some distance from  $\overline{PQ}$ . Draw a perpendicular to  $\overline{PQ}$  from point R?