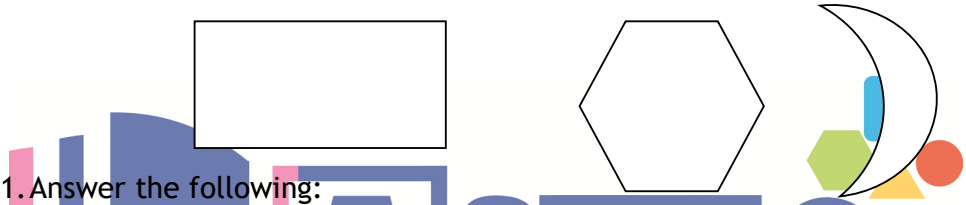
6th – Constructions

1. Draw a line segment $\overline{AB}$ and then draw a perpendicular bisector to it.
2. Draw a line segment $\overline{AD}$. Mark a point P on it and then draw a perpendicular bisector at P.
3. Draw a line segment $\overline{AB}$ of length 5 cm. now draw a perpendicular bisector of the line segment $\overline{AB}$.
4. Draw circles of different sizes using compasses.
5. Draw a line segment PQ. Mark a point X outside PQ. Now draw a perpendicular to $\overline{PQ}$ from this point.
6. Draw three circles of radii 2.5cm, 3 cm, and 4 cm with the same centre.
7. Draw any angle. Construct a copy of the angle using ruler and compasses.
8. Draw an angle of 60°. Make a copy of the angle using ruler and compasses.
9. Construct angles of following measures using ruler and compasses.

a) 30^0 b) 45^0 c) 120^0 d) 60^0

10. Which of the following have lines of symmetry? How many lines of symmetry does each have? Draw a line of symmetry in each of the following:



11. Answer the following:

a) Make a list of all the capital alphabets in English which have only one line of symmetry.

b) Make a list of all the capital alphabets in English which have no line of symmetry.

c) Write the name of three flowers each of which have.

a) Only one line of symmetry

b) Many lines of symmetry

12. Draw line l and take any point P outside the line. Locate a point Q such that it is symmetrical to point P with respect to l.
13. Identify any three letters of the English alphabet through which no line of symmetry can be drawn.
14. Draw a triangle having

a) No line of symmetry

b) One line of symmetry

c) Three lines of symmetry

15. How many axes of symmetry can be drawn through:

a) An isosceles trapezium

b) A regular pentagon

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