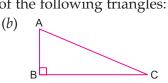
SUB BASIC GEOMETRICAL IDEAS

More Questions for Practice

- 1. Mark any four points on a page of your exercise book and name them.
- **2.** Draw a line on a sheet of paper and name it by using a small letter of the alphabet. Draw another line and name it by taking any two points on it.
- **3.** Mark any two points on a piece of paper and draw a line passing through them. How many lines can you draw through each of these points?
- 4. Give two examples of (a portion of) planes from your environment.
- **5.** Draw a picture of:
 - (*a*) a line; (*b*) a line segment; (*c*) a ray.
- 6. Draw two rays with the same end point.
- 7. Mark three points X, Y and Z in the exterior of the curve C.

• C

- 8. Mark four points P, Q, R and S on the curve C.
- 9. Draw a closed curve and an open curve.
- **10.** Sketch an angle—
 - (a) with vertex O and arms \overrightarrow{OA} and \overrightarrow{OB} .
 - (*b*) with vertex P and arms \overrightarrow{PQ} and \overrightarrow{PR} .
- 11. Sketch an angle XYZ. Mark any two points each in its interior and exterior.
- 12. Draw a median AD and an altitude AX in each of the following triangles:
 - (a) A



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C

- 13. Draw a quadrilateral MNPR. Write its
 - (*a*) one pair of opposite sides;
 - (*b*) one pair of opposite vertices;
 - (c) one pair of adjacent sides;

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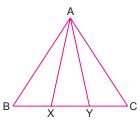
- (*d*) one pair of adjacent vertices.
- **14.** Fill in the blanks:
 - (*a*) A curve which does not begin and end at the same points is called an _____ curve.
 - (*b*) A simple closed figure bounded by straight lines is said to have _____ boundaries.
 - (*c*) A triangle has _____ medians; and _____ altitudes.
 - (*d*) The length of diameter = _____ × length of radius.
 - (*e*) The **____** of a circle always lies in the _____ of the circle.





D

- **15.** State *true* (*T*) or *false* (*F*) for each of the following:
 - (*a*) AC and BD are diagonals of the quadrilateral.
 - (b) A, B, C and D are the interior points of the quadrilateral.
 - (c) O is the interior point of the quadrilateral ABCD.
 - (*d*) The two diagonals of a square are equal.
 - (e) A circle with radius 6 cm has a diameter of length 3 cm.
- **16.** Draw a circle. Mark its (*a*) centre O, (*b*) chord XY, (*c*) radius OA, (*d*) diameter PQ and (*e*) arc XZY.
- **17.** How many triangles are there in the figure? Name all the triangles.



18. Draw three rays with the same end point. How many angles are formed? Name the angles.

ANSWERS

- **3.** Infinite number of lines
- 14. (a) open(b) linear(c) three; three(d) 2(e) centre, interior15. (a) T(b) F(c) T(d) T(e) F17. Six; $\triangle ABC$, $\triangle ABX$, $\triangle AXY$, $\triangle AYC$, $\triangle ABY$, $\triangle AXC$.18. Three.



