

## How to Draw Circles?

### A. Choose the correct answer:

1. Which tool is used to draw circles accurately?

- a) Scale
- b) Compass
- c) Protractor
- d) Ruler

2. The fixed point from where a circle is drawn is called:

- a) Radius
- b) Diameter
- c) Centre
- d) Circumference

3. To draw a bigger circle, we must:

- a) Make the compass smaller
- b) Open the compass wider
- c) Use a smaller pencil
- d) Hold the compass loosely

4. If you draw a circle with a compass opening of 3 cm, the radius of the circle will be:

- a) 2 cm
- b) 3 cm
- c) 6 cm
- d)  $1/2$  cm

5. Which one of these is NOT needed to draw a circle?

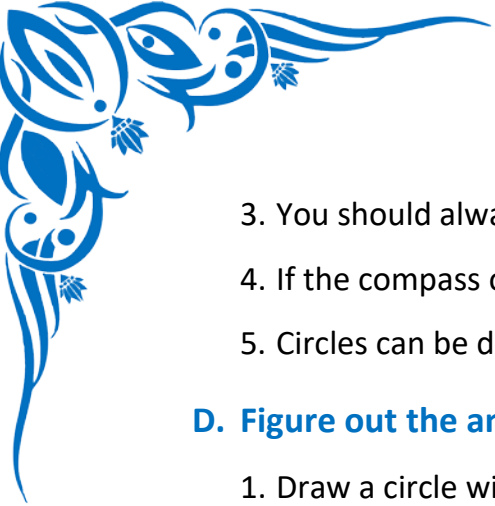
- a) Pencil
- b) Compass
- c) Eraser
- d) Scale

### B. Write the Missing Terms to Complete the Sentences:

1. To draw a circle, we put the sharp point of the compass at the \_\_\_\_\_.
2. The distance from the center to any point on the circle is called \_\_\_\_\_.
3. If we increase the compass opening, the circle becomes \_\_\_\_\_.
4. Before drawing a circle, the pencil should be firmly placed in the \_\_\_\_\_.
5. A circle drawn with a radius of 5 cm has a diameter of \_\_\_\_\_ cm.

### C. Mark each sentence with a True (✓) or False (X):

1. A circle can be drawn perfectly without a compass. \_\_\_\_\_
2. The compass point moves around the paper while drawing a circle. \_\_\_\_\_



3. You should always keep the compass opening fixed while drawing a circle. \_\_\_\_\_
4. If the compass opening is 2 cm, the diameter of the circle is 4 cm. \_\_\_\_\_
5. Circles can be drawn using coins or lids if a compass is unavailable. \_\_\_\_\_

**D. Figure out the answers to these questions:**

1. Draw a circle with a radius of 4 cm and mark its center as O.
2. Explain how you would use a compass to draw a circle step by step.
3. If you want to draw a very small circle, how should you adjust your compass?
4. Name two mistakes you might make while drawing circles with a compass.
5. Why should you hold the compass carefully when drawing circles?

**E. Challenge yourself with these questions:**

1. Write down two objects at home you can use to draw circles without a compass.
2. Describe briefly why the center of a circle is important when drawing it.
3. If the radius of a circle is doubled, how will the circle change?
4. Imagine you lost your compass. Explain another way to draw a circle.
5. Draw two circles, one with a radius of 2 cm and another with a radius of 5 cm. Which one is larger, and why?