

Do This

- Take a circular sheet. Fold it into two halves. Crease the fold and open up. Do you find that the circular region is halved by the diameter?

A diameter of a circle divides it into two equal parts; each part is a *semi-circle*. A semi-circle is half of a circle, with the end points of diameter as part of the boundary.



EXERCISE 4.6

1. From the figure, identify:
 - (a) the centre of circle
 - (b) three radii
 - (c) a diameter
 - (d) a chord
 - (e) two points in the interior
 - (f) a point in the exterior
 - (g) a sector
 - (h) a segment
2. (a) Is every diameter of a circle also a chord?
(b) Is every chord of a circle also a diameter?
3. Draw any circle and mark
 - (a) its centre
 - (b) a radius
 - (c) a diameter
 - (d) a sector
 - (e) a segment
 - (f) a point in its interior
 - (g) a point in its exterior
 - (h) an arc
4. Say true or false :
 - (a) Two diameters of a circle will necessarily intersect.
 - (b) The centre of a circle is always in its interior.

