

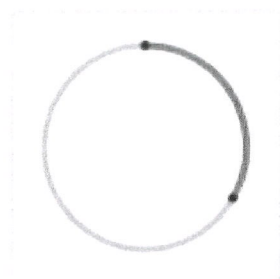
circle - a collection of points with an equal distance from a point called the center.

we name circles with center points.

Worked Examples - Parts of a Circle (IXL Geometry W.1)

1.

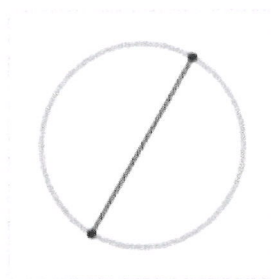
Which figure shows a diameter?



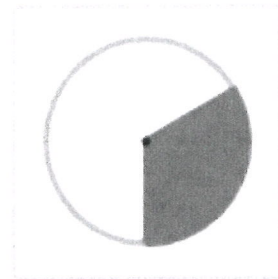
x



x



✓

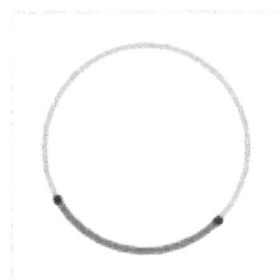


x

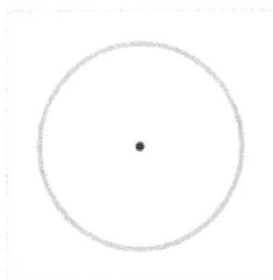
Diameter - A line segment that goes through the center, with both endpoints on the circle.

2.

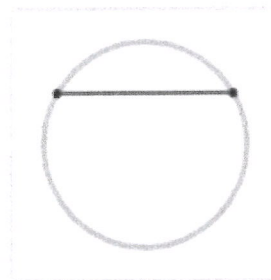
Which figure shows the center?



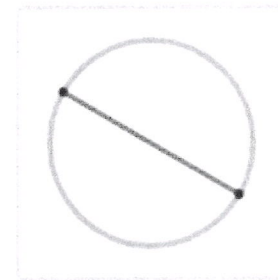
x



✓



x

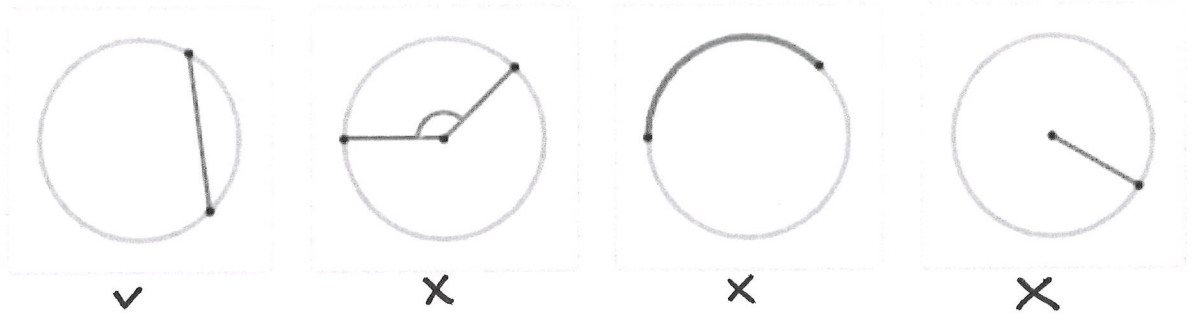


x

center - a point that is the same distance from every part of the circle. "In the middle."

3.

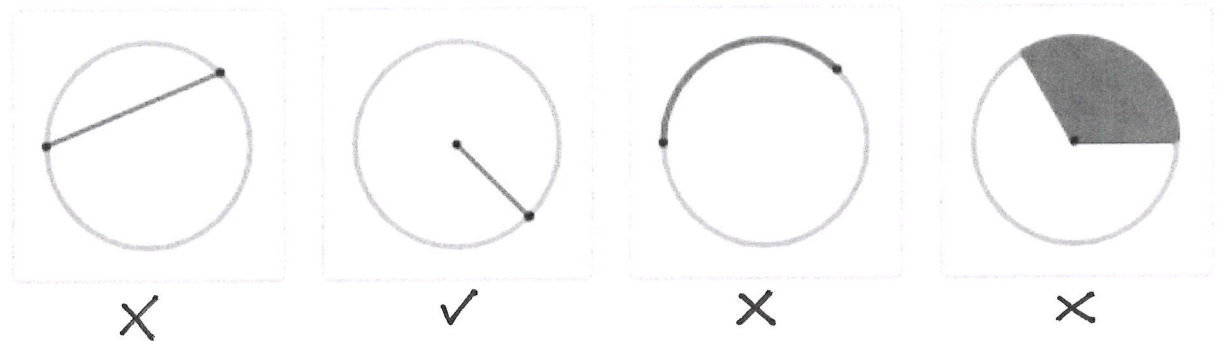
Which figure shows a chord?



Chord - A line segment with both endpoints on the circle.

4.

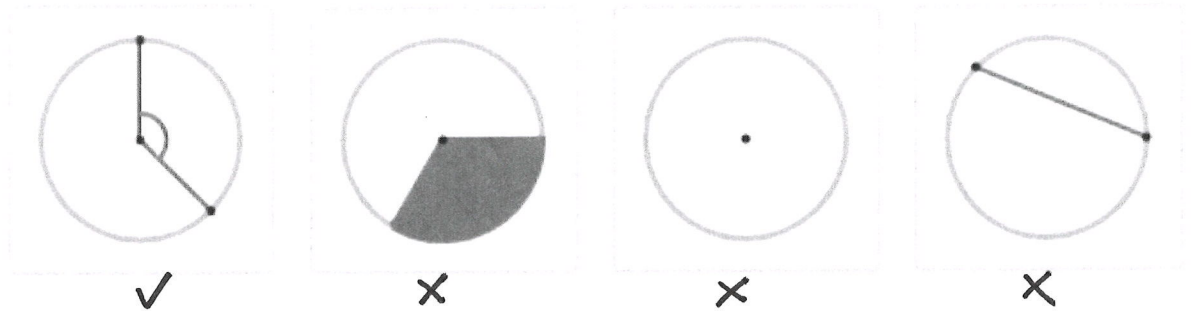
Which figure shows a radius?



Radius - A line segment whose endpoints are on the center and on the circle.

5.

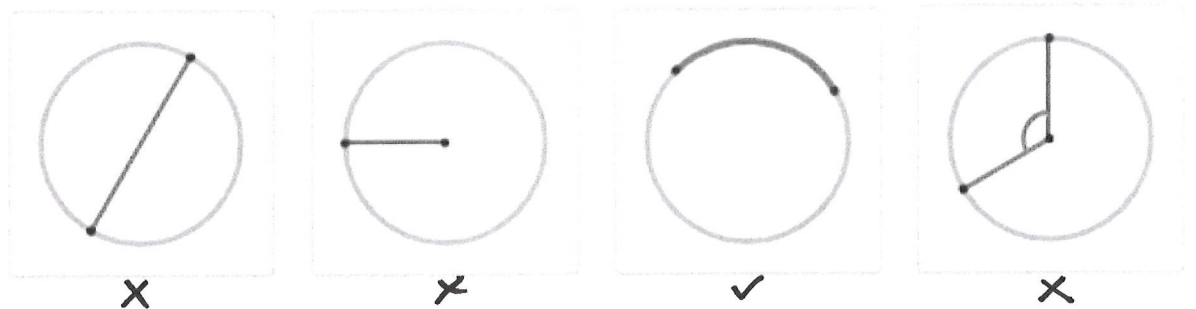
Which figure shows a central angle?



Central Angle - An angle whose vertex is the center, and whose sides are radii.

6.

Which figure shows an arc?



Arc - Part of the circle that is between two points on the circle. "Curved"

Major Arc



Minor Arc

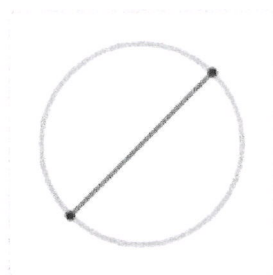


Semicircle

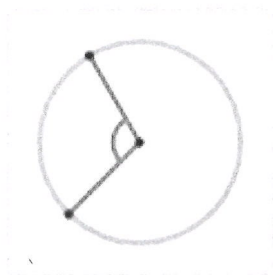


7.

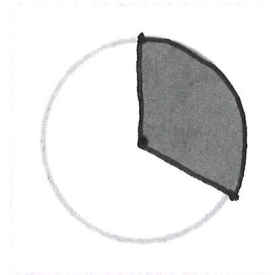
Which figure shows a sector?



X



X



✓

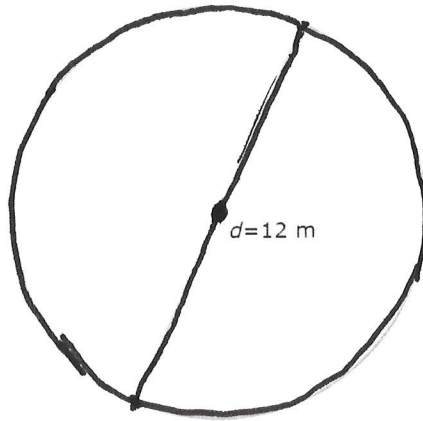


X

sector - A region whose boundaries are an arc and two radii that have endpoints on the arc.

8.

The diameter of a circle is 12 meters. What is the radius?



Give the exact answer in simplest form.

Given
Diameter = 12 m

Find
Radius

$$2r = d$$

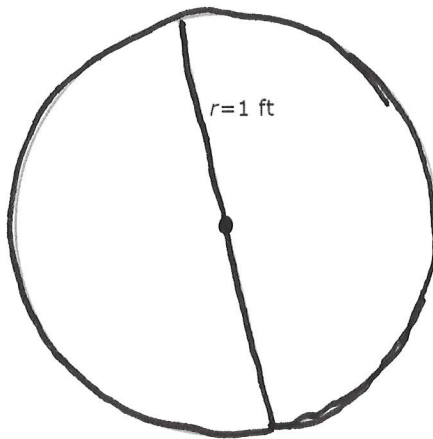
or $r + r = d$

$$\frac{2r}{2} = \frac{12}{2}$$

$$\boxed{r = 6 \text{ m}}$$

9.

The radius of a circle is 1 foot. What is the diameter?



Give the exact answer in simplest form.

Given
radius = 1 ft

Find
Diameter

$$2r = d$$

$$2(1) = d$$

$$\boxed{2 \text{ ft} = d}$$