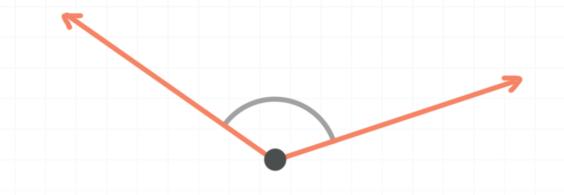**Topic**: Naming angles

Question: Which kind of angle is shown below?

Answer choices:

A Zero angle

B Obtuse angle

C Right angle

D Straight angle

Solution: B

The angle is greater than a quarter circle but less than a half circle, so it's an obtuse angle.

Topic: Naming angles

Question: What is the name of an angle with measure less than 90 degrees?

Answer choices:

A   Acute angle

B   Right angle

C   Obtuse angle

D   Straight angle

Solution: A

Any angle that's less than a quarter circle, or $0° < \theta < 90°$, is called an "acute" angle.

Topic: Naming angles

Question: Which angle represents an obtuse angle?

Answer choices:

A $\dfrac{\pi}{2}$

B $45°$

C $\dfrac{2\pi}{3}$

D $180°$

Solution: C

Any angle that's greater than a quarter circle but less than a half circle, $90° < \theta < 180°$ in degrees or $\pi/2 < \theta < \pi$ in radians, is an obtuse angle.

Because the angle $\theta = 2\pi/3$ is larger than $\pi/2$ but less than π,

$$\frac{\pi}{2} < \frac{2\pi}{3} < \pi$$

it's an obtuse angle, measured in radians.