

**SAT bellwork**  
**Wednesday 01/10**

**Problem 1**

The number of radians in a 720-degree angle can be written as  $a\pi$ , where  $a$  is a constant. What is the value of  $a$ ?

$$720 \cdot \frac{\pi}{180} = \frac{720\pi}{180} = 4\pi.$$

$$360 = 2\pi$$

$$360 \cdot 2 = 720 = 4\pi$$

**Problem 2**

Points  $A$  and  $B$  lie on a circle with radius 1, and arc  $\widehat{AB}$  has length  $\frac{\pi}{3}$ . What fraction of the

circumference of the circle is the length of arc  $\widehat{AB}$ ?

