Math 3   Name_____
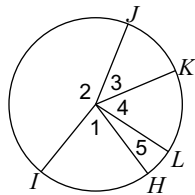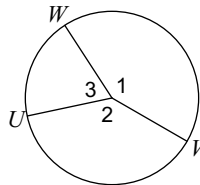# PRACTICE Quiz 6.1-6.2 Central Angles, Arc Length and Sector Area

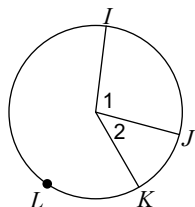**If an angle is given, name the arc it makes. If an arc is given, name its central angle.**
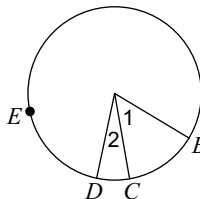
1) $\angle 3$

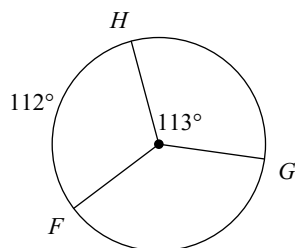2) $\overset{\frown}{VWU}$

3) Major arc for $\angle 1$
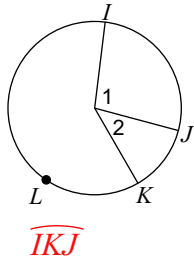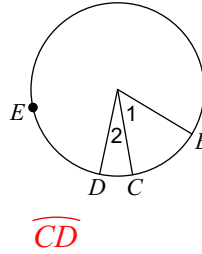
4) $\angle 2$

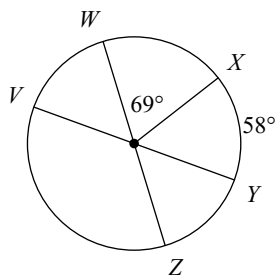**Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.**
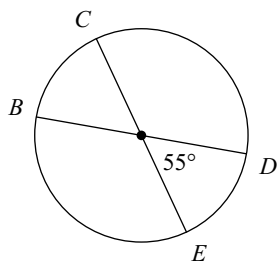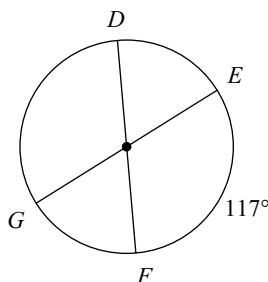
5) $m\overset{\frown}{HGF}$
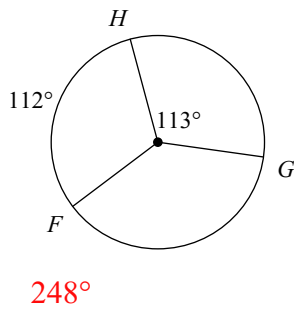
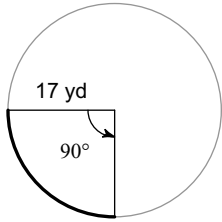6) $m\overset{\frown}{YZ}$

7) $m\overset{\frown}{BC}$

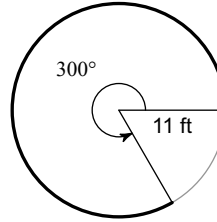8) $m\overset{\frown}{FGE}$

Find the length of each arc. Give answer in terms of pi.
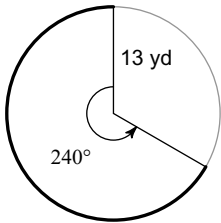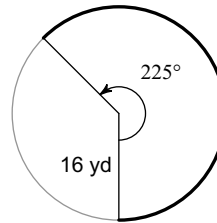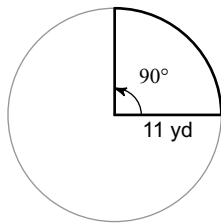
9)

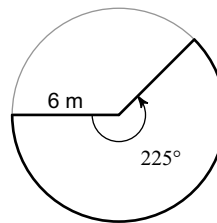17 yd

90°

10)

300°

11 ft

11)

13 yd

240°

12)

225°

16 yd

Find the area of each sector. Give answer in terms of pi.
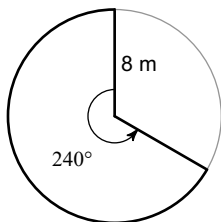
13)

90°

11 yd

14)

6 m

225°

15)

8 m

240°

16)

7 mi 45°
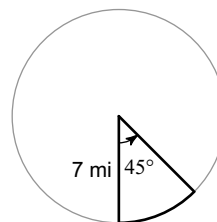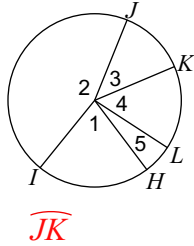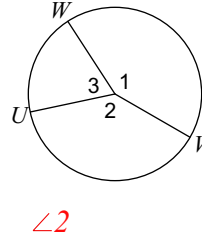
PRACTICE Quiz 6.1-6.2 Central Angles, Arc Length and Sector Area

**If an angle is given, name the arc it makes. If an arc is given, name its central angle.**

1) ∠3

$\overset{\frown}{JK}$

2) $\overset{\frown}{VWU}$

∠2

3) Major arc for ∠1
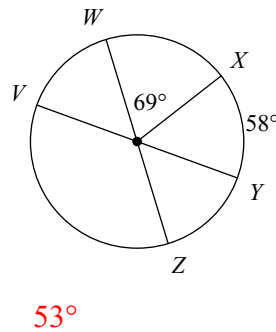

$\overset{\frown}{IKJ}$

4) ∠2

$\overset{\frown}{CD}$

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
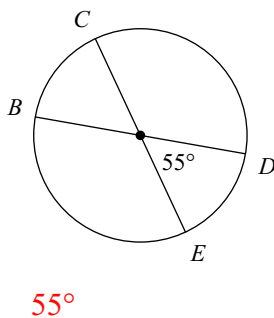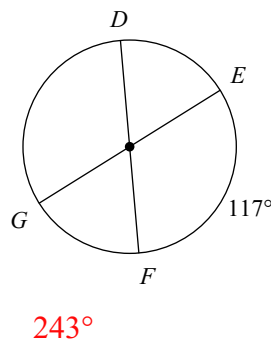
5) $m\overset{\frown}{HGF}$

248°

6) $m\overset{\frown}{YZ}$

53°

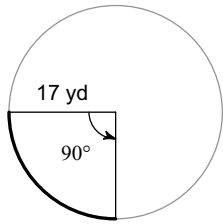7) $m\overset{\frown}{BC}$

55°

8) $m\overset{\frown}{FGE}$

243°

Find the length of each arc. Give answer in terms of pi.

9)

17 yd

90°

$$\frac{17\pi}{2} \text{ yd}$$

10)

300°

11 ft

$$\frac{55\pi}{3} \text{ ft}$$

11)

13 yd

240°

$$\frac{52\pi}{3} \text{ yd}$$
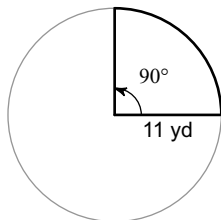
12)

225°

16 yd

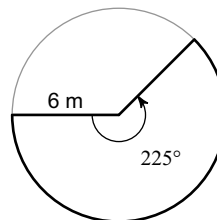$$20\pi \text{ yd}$$

Find the area of each sector. Give answer in terms of pi.

13)

90°

11 yd

$$\frac{121\pi}{4} \text{ yd}^2$$

14)

6 m

225°

$$\frac{45\pi}{2} \text{ m}^2$$

15)

8 m

240°

$$\frac{128\pi}{3} \text{ m}^2$$

16)

7 mi 45°

$$\frac{49\pi}{8} \text{ mi}^2$$