Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

Arc Length & Area of Sector Worksheet

Find the length of the arc or area of the shaded region.



Arc Length: \_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_ Arc Length: \_\_\_\_\_\_\_\_\_\_\_\_\_



Area: \_\_\_\_\_\_\_\_\_\_\_\_\_ Arc Length: \_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_

Find the length of the arc or area of the NON - shaded region.



Arc Length: \_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_ Arc Length: \_\_\_\_\_\_\_\_\_\_\_\_\_

Use the following circle to answer questions 10-14:

N

J

145°

85°

10°

L

M

K

O

Radius: 20

10) Find the area of sector LOM:

11) Find the area of sector JON:

12) Find the arc length of$\hat{ LM}$:

13) Find the arc length of$\hat{ LMN}$:

14) Find the arc length of$\hat{ LKJ}$: