Name: _____   Date _____

Do the following:

1.

F

195°

O

G

In a circle of a garden the angle is 195 degrees. The length of minor arc FG is 250. Find the radius of the circle.

2.

J

105°

O   125   K
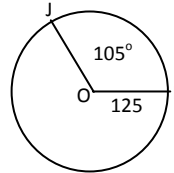
In circle O, the radius is 125, and the measure of minor arc JK is 105 degrees. Find the length of minor arc JK to the nearest integer.

3.

W

O 185°

13

X
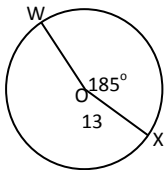
In circle O, the radius is 13, and the measure of minor arc WX is 185 degrees. Find the length of minor arc WX to the nearest integer.

4.

O   30   L

M
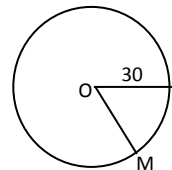
The radius of Circle O is 30 feet. The distance of point L to point M is 60. Find to the nearest angle, the measure of minor arc.

5.

M

O 55° N

15

In circle O, the radius is 15, and the measure of minor arc MN is 55 degrees. Find the length of minor arc MN to the nearest integer.

6.

D

115°

O   E

In a circle the angle is 115 degrees. The length of minor arc DE is 200. Find the circumference of the circle.

7.

R

60

S

In a circular track the radius is 60 feet. The distance of point R to point S is 110. Find to the nearest angle, the measure of minor arc.

8.

U

140°

O   20   V

In circle O, the radius is 20, and the measure of minor arc GH is 140 degrees. Find the length of minor arc UV to the nearest integer.
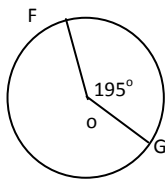
Name: _____   Date _____

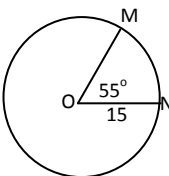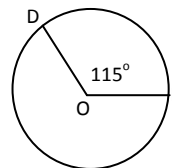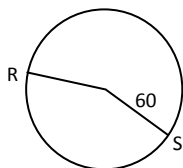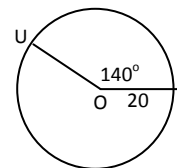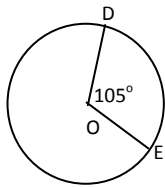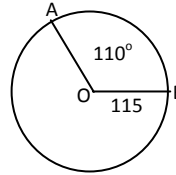Topic: **Arcs of Circle - Worksheet 2**
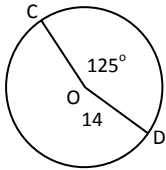
Do the following:

1.

In a circle of a garden the angle is 105 degrees. The length of minor arc DE is 150. Find the radius of the circle.
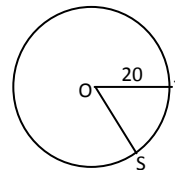
2.

In circle O, the radius is 110, and the measure of minor arc AB is 115 degrees. Find the length of minor arc AB to the nearest integer.
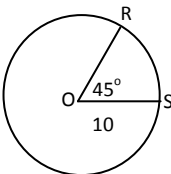
3.

In circle O, the radius is 14, and the measure of minor arc CD is 125 degrees. Find the length of minor arc CD to the nearest integer.
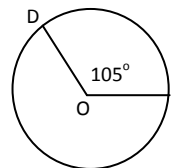
4.

The radius of Circle O is 20 feet. The distance of point S to point T is 40. Find to the nearest angle, the measure of minor arc.
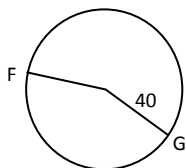
5.

In circle O, the radius is 10, and the measure of minor arc RS is 45 degrees. Find the length of minor arc RS to the nearest integer.
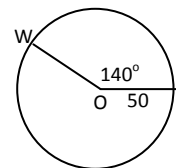
6.

In a circle the angle is 105 degrees. The length of minor arc DE is 120. Find the circumference of the circle.

7.

In a circular track the radius is 40 feet. The distance of point F to point G is 70. Find to the nearest angle, the measure of minor arc.

8.

In circle O, the radius is 50, and the measure of minor arc WX is 140 degrees. Find the length of minor arc WX to the nearest integer.
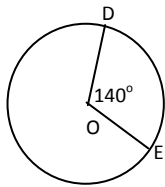
Name: _____   Date _____
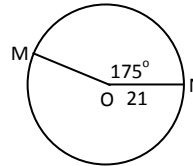
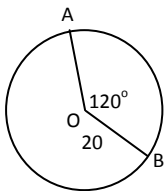Topic: **Arcs of Circle - Worksheet 3**

Do the following:

1.

D
140°
O
E

In a circle of a garden the angle is 140 degrees. The length of minor arc DE is 160. Find the radius of the circle.
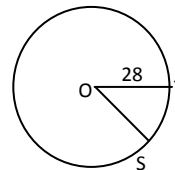
2.

M
175°
O 21
N

In circle O, the radius is 21, and the measure of minor arc MN is 175 degrees. Find the length of minor arc MN to the nearest integer.
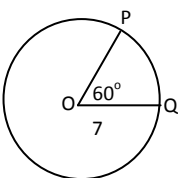
3.

A
120°
O
20
B

In circle O, the radius is 20, and the measure of minor arc AB is 120 degrees. Find the length of minor arc AB to the nearest integer.

4.

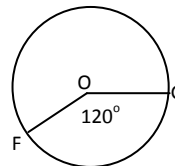O 28 T
S

The radius of Circle O is 28 feet. The distance of point S to point T is 34. Find to the nearest angle, the measure of minor arc.
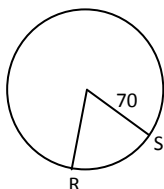
5.

P
O 60° Q
7

In circle O, the radius is 7, and the measure of minor arc PQ is 60 degrees. Find the length of minor arc PQ to the nearest integer.
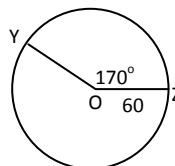
6.

O
120°
G
F

In a circle the angle is 120 degrees. The length of minor arc FG is 85. Find the radius of the circle.

7.

70
S
R

In a circular track the radius is 70 feet. The distance of point R to point S is 35. Find to the nearest angle, the measure of minor arc.

8.

Y
170°
O 60
Z

In circle O, the radius is 60, and the measure of minor arc YZ is 170 degrees. Find the length of minor arc YZ to the nearest integer.

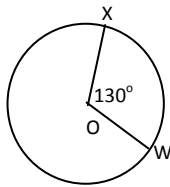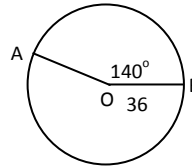Name: _____   Date _____
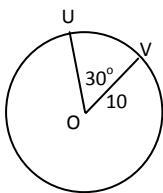
Do the following:

1.

In a circle of a garden the angle is 130 degrees. The length of minor arc WX is 145. Find the radius of the circle.
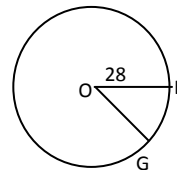
2.

In circle O, the radius is 36, and the measure of minor arc AB is 140 degrees. Find the length of minor arc AB to the nearest integer.
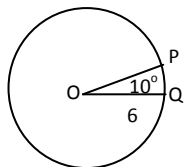
3.

In circle O, the radius is 20, and the measure of minor arc UV is 30 degrees. Find the length of minor arc UV to the nearest integer.
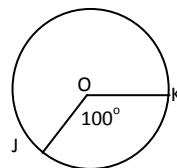
4.

The radius of Circle O is 12 feet. The distance of point H to point G is 16. Find to the nearest angle, the measure of minor arc.
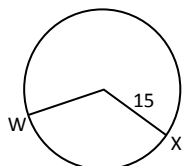
5.

In circle O, the radius is 6, and the measure of minor arc PQ is 10 degrees. Find the length of minor arc PQ to the nearest integer.
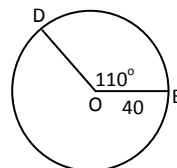
6.

In a circle the angle is 100 degrees. The length of minor arc JK is 25. Find the circumference of the circle.

7.

In a circular track the radius is 15 feet. The distance of point W to point X is 30. Find to the nearest angle, the measure of minor arc.

8.

In circle O, the radius is 40, and the measure of minor arc DE is 110 degrees. Find the length of minor arc DE to the nearest integer.
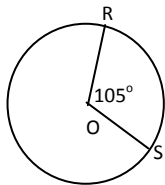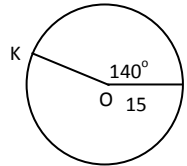
Topic: **Arcs of Circle - Worksheet 5**
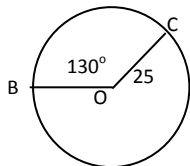
Do the following:

1.

In a circle of a garden the angle is 105 degrees. The length of minor arc RS is 115. Find the radius of the circle.
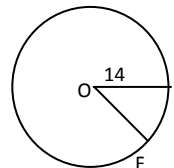
2.

In circle O, the radius is 15, and the measure of minor arc KL is 140 degrees. Find the length of minor arc KL to the nearest integer.
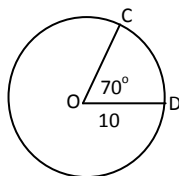
3.

In circle O, the radius is 25, and the measure of minor arc BC is 130 degrees. Find the length of minor arc BC to the nearest integer.
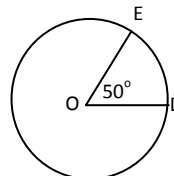
4.

The radius of Circle O is 14 feet. The distance of point E to point F is 30. Find to the nearest angle, the measure of minor arc.
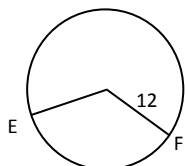
5.

In circle O, the radius is 10, and the measure of minor arc CD is 70 degrees. Find the length of minor arc CD to the nearest integer.
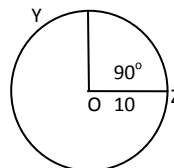
6.

In a circle the angle is 50 degrees. The length of minor arc DE is 25. Find the radius of the circle.

7.

In a circular track the radius is 12 feet. The distance of point E to point F is 45. Find to the nearest angle, the measure of minor arc.

8.

In circle O, the radius is 10, and the measure of minor arc YZ is 90 degrees. Find the length of minor arc YZ to the nearest integer.