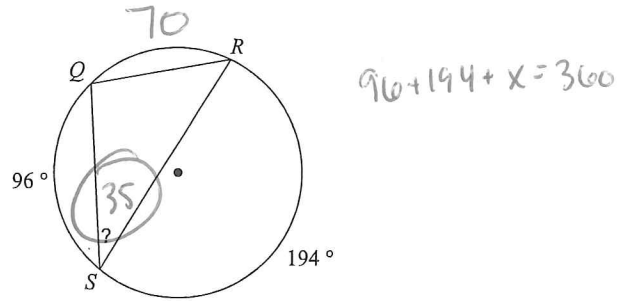# Practice: Circles, Arcs, & Angles   Hour____

Day 2 Review: Find the measure of the arc or angle indicated.

1)

51

102

180
-78
$\overline{102}$

$78°$

2)

70

$96°$

35

$194°$

$96 + 194 + x = 360$

3)

$120°$

30 ?

60

4)

74

$37°$

? *106*

Day 2 Review: Solve for x.

5)

$18 + 7x = \frac{1}{2}(190)$

$x = 11$

$18 + 7x$

$190°$

6)

$80°$

$18x - 4$

$18x - 4 = \frac{1}{2}(80 + 164)$

$x = 7$

$164°$

7)

$16x + 8$

$7x + 10$

$7x + 10 = \frac{1}{2}(16x + 8)$

$7x + 10 = 8x + 4$

$6 = x$

8)

160

98

$62°$

$56x$

$80°$ $77°$

$77 = \frac{1}{2}(56x + 98)$
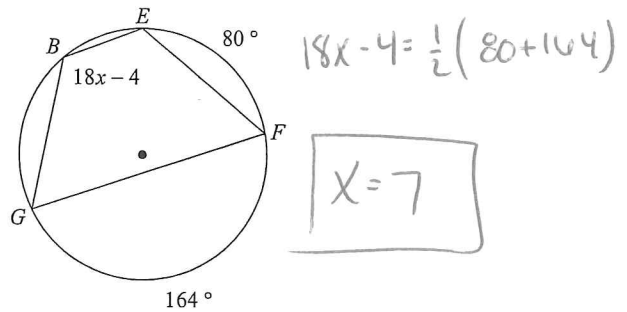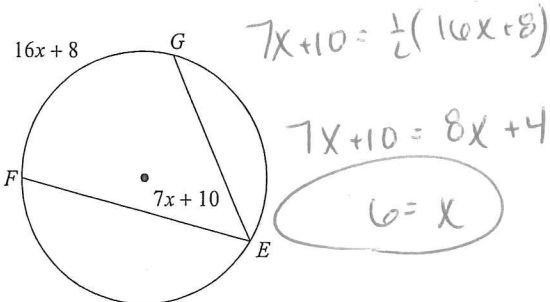
$x = 1$
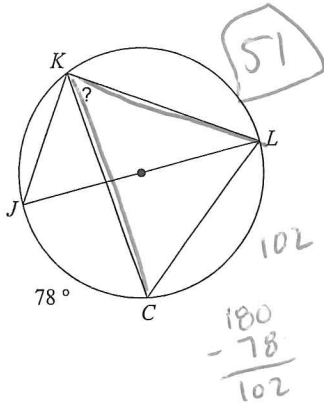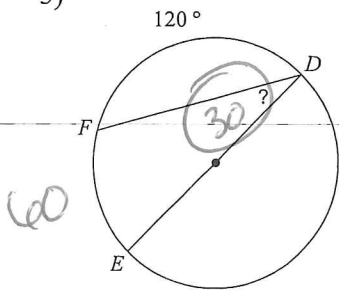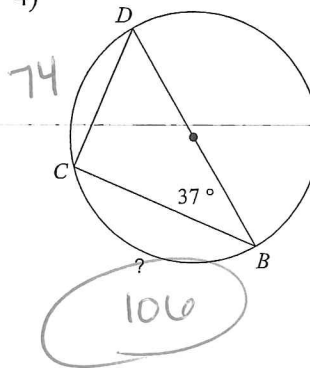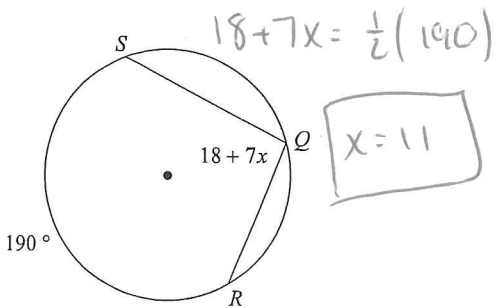
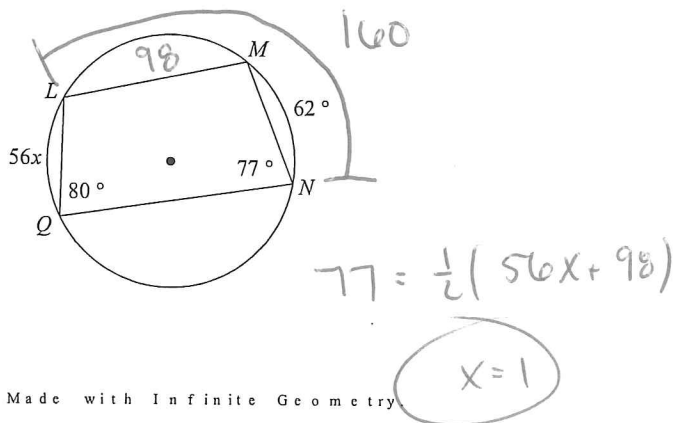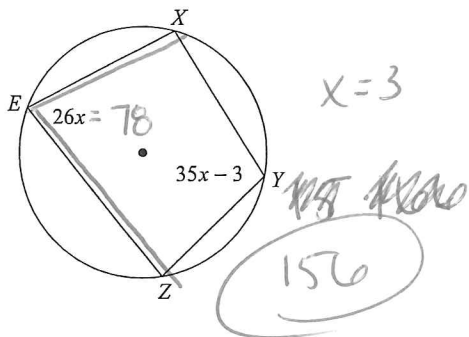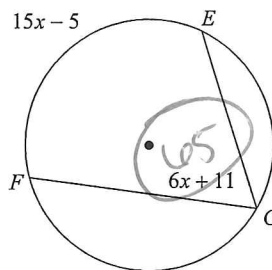**Day 2 Review: Find the measure of the arc or angle indicated.**

9) Find $m\widehat{XZ}$ $26x + 35x - 3 = 180$

$x = 3$

$26x = 78$

$35x - 3$

~~104~~   ~~105~~

$\boxed{156}$

10) Find $m\angle FGE$

$15x - 5$

65

$6x + 11$

$6x + 11 = \frac{1}{2}(15x - 5)$

$12x + 22 = 15x - 5$

$x = 9$

Day 1 Review: Find the area of each if you are given the following information.
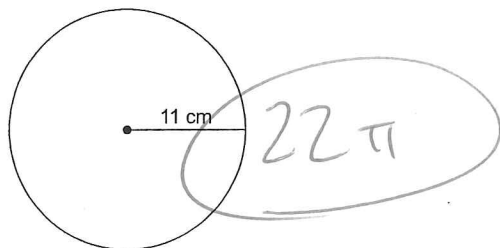
11) circumference $= 8\pi$ cm

$r = 4$ $\boxed{16\pi}$

Day 1 Review: Find the circumference of each circle.

12)

11 cm 22π

13) diameter $= 18$ cm

$\boxed{18\pi}$

14) area $= 100\pi$ mi²

$r = 10$ $\boxed{20\pi = C}$

Day 1 Review: Find the diameter of each circle.

15) area $= 49\pi$ cm²

$r = 7$ $\boxed{d = 14}$

16) circumference $= 20\pi$ m

$\boxed{D = 20}$

Day 1 Review: Find the area of each.

17) circumference $= 6\pi$ m
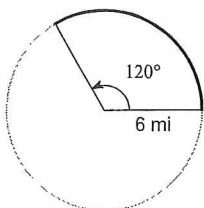
$r = 3$ $\boxed{9\pi = A}$
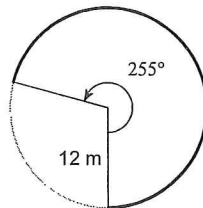
Day 1 Review: Find the circumference of each circle.

18) area = 36π mi²

$r = 6$ $12\pi = C$
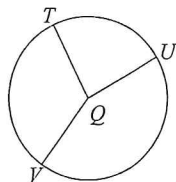
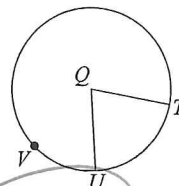**Day 1 Review: Find the length of each arc.**

19)

120°

6 mi

20)

255°

12 m

Day 1 Review: Name the arc made by the given angle.

21) $\angle TQU$

T

U

Q

V

A) $\overarc{TUV}$ B) $\overarc{TU}$
C) $\overarc{TV}$ D) $\overarc{UTV}$

22) Major arc for $\angle TQU$

Q

T

V

U

A) $\overarc{TVU}$ B) $\overarc{TU}$

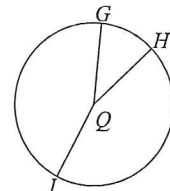**Day 1 Review: Name the central angle of the given arc.**

23) $\overarc{RSU}$

R

U

S

Q

T
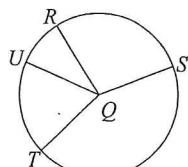
A) $\angle RQU$ B) $\angle SQU$
C) $\angle RQT$ D) $\angle RQS$
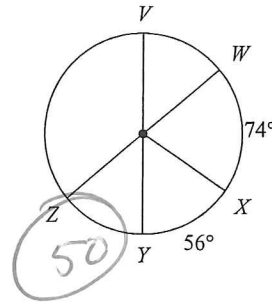
24) $\overarc{GH}$

G

H

Q

I

A) $\angle HQI$ B) $\angle GQH$
C) $\angle GQI$

Day 1 Review: Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

25)

83°
83
?
77°
50°

26) $m\widehat{ZWY}$

V

W

74°

Z

X

50

Y   56°
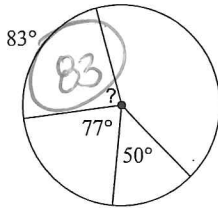
Day 1 Review: Solve for x. Assume that lines which appear to be diameters are actual diameters.

27)

63°

19x − 10

$19x - 10 = 180$

$x = 10$

Day 1 Review: Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
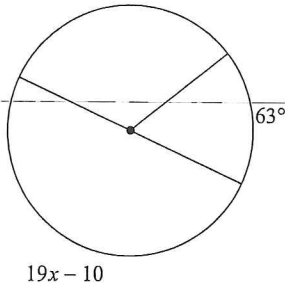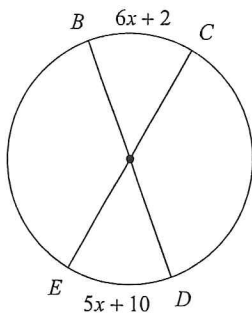
28) $m\widehat{BC}$

B   6x + 2   C

E   5x + 10   D

$6x + 2 = 5x + 10$

$x = 12$

$70 = \widehat{BC}$

More Angles
Homework Grade

Name: _____ Hour: _____

The problems below are directly from your homework or directly related the homework assignment.
Complete each problem. Show <u>ALL</u> work.
Graded for accuracy. Cannot be redone.

1)

162°
K
S
50°
L
N
?
M

$$\frac{1}{2}(162-50)$$

56

2)

K
L
40°
?
J
M
136°

$$40 = \frac{1}{2}(136-x)$$

$$80 = 136-x$$

$$56 = x$$

3)

?
L
K
125°
235
M
360-125

$$\frac{1}{2}(235-125)$$

55

Central & Inscribed Angles
Homework Grade
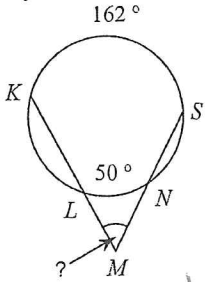
Name: _____ Hour: _____

The problems below are directly from your homework or directly related the homework assignment.
Complete each problem. Show <u>ALL</u> work.
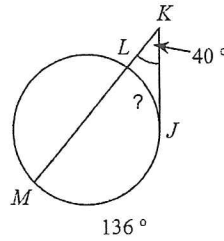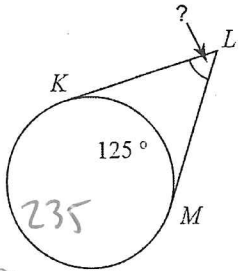Graded for accuracy. Cannot be redone.

$114 + 140 + x = 360$

1)

$9x - 7$

$55°$

$56°$

$9x - 7 = 56$

$x = 7$

2)

M

$114°$

106

53

$?$

K

L

$140°$

3)

F

$?$ 150

D

E

$75°$

4)

M N

$x°$ $y°$

O

$104°$

$68°$

P

$y = 76$

$x = 112$

5)

Z

$82°$

Q

S

$?$ 66

R

$98°$

164