UNIT 4 TEST REVIEW
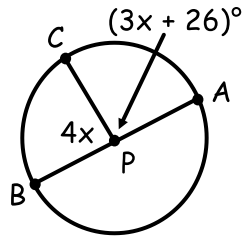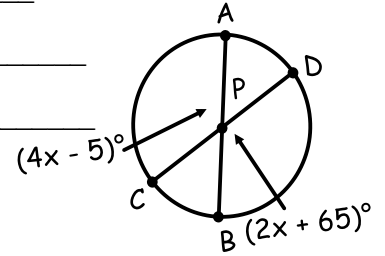
Use ⊙P to find the value of x. Then, find the arc measures.

x = _____

1. mBC = _____

    mAC = _____

C (3x + 26)°

4x

B

A

P
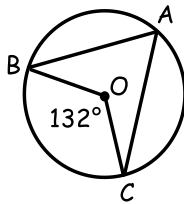
x = _____

2. mBD = _____

    mAC = _____

A

P

D

(4x - 5)°

C

B (2x + 65)°

Find the measure of the indicated arc or angle in ⊙O.

3. m∠BAC = _____

A

B

O

132°

C

4. mBC = _____

27°

A

O

B

C

5. m∠BAC = _____

B

C

A

O

94°

D

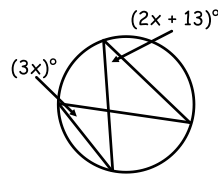---
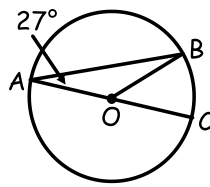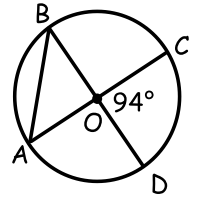
Find the value of each variable.

6. x = _____

104°

x°

7. x = _____

(2x + 13)°

(3x)°

8. x = _____

F

M

E

80°

x

D

74°

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9. x = _____

135°

x

160°

10. x = _____

22°

x°

125°

11. x = _____

45°
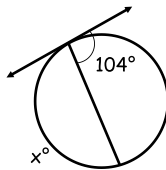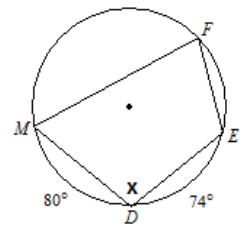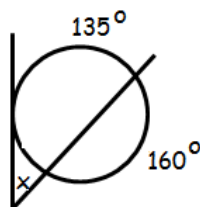
x°

Find the **area** and **arc length** of the shaded region.
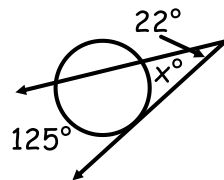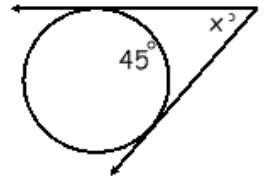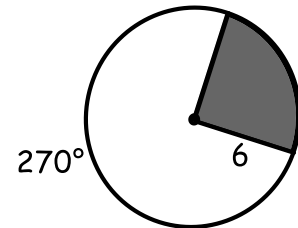
12. A.S. = _____

13. A.L. = _____

270°   6

The radius of a pizza is 8 in. The pizza is cut into eighths.

14. Find the area of one piece of pizza.

_____

15. Find the length of the crust on one piece of pizza. _____

16. Determine the radius of the circle with a circumference of 26π cm. _____

Use the radius to then find the area. _____

17. A sprinkler system can shoot water at a distance of 15 yards. It is set up to rotate 240 degrees. How much area of the yard is covered by the sprinkler? _____

18. The clock in our classroom has a radius of 9 inches. If it's 4:00, find the arc length and area of the sector for this time. A.L. = _____ & A.S. = _____