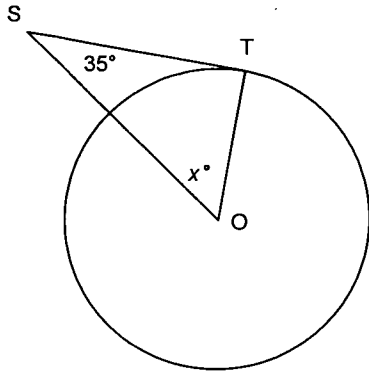


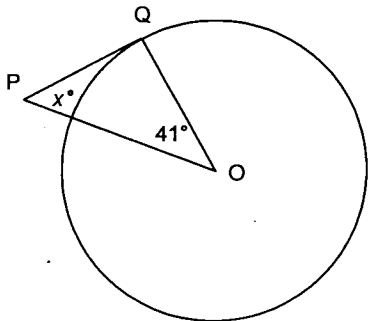
Multiple Choice

Identify the choice that best completes the statement or answers the question.

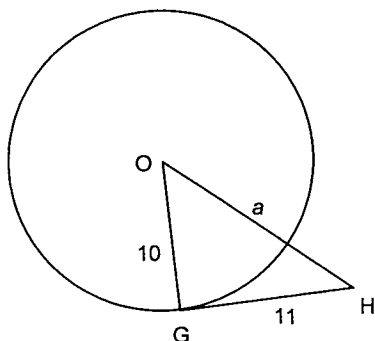
- _____ 1. O is the centre of this circle and point T is a point of tangency. Determine the value of x° .



- a. 90° b. 55° c. 35° d. 125°
- _____ 2. O is the centre of this circle and point Q is a point of tangency. Determine the value of x° .

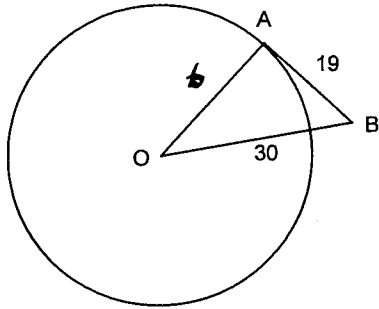


- a. 139° b. 49° c. 41° d. 90°
- _____ 3. O is the centre of this circle and point G is a point of tangency. Determine the value of a . If necessary, give your answer to the nearest tenth.



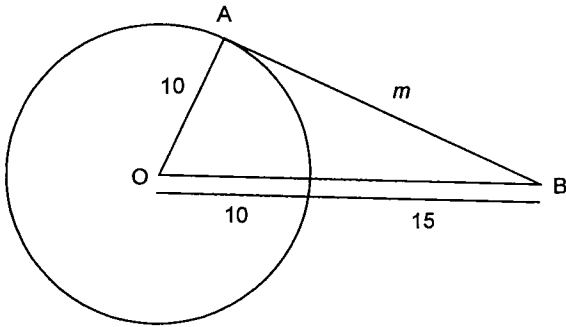
- a. 11.3 b. 22.5 c. 4.6 d. 14.9

4. O is the centre of this circle and point A is a point of tangency.
Determine the value of b . If necessary, give your answer to the nearest tenth.



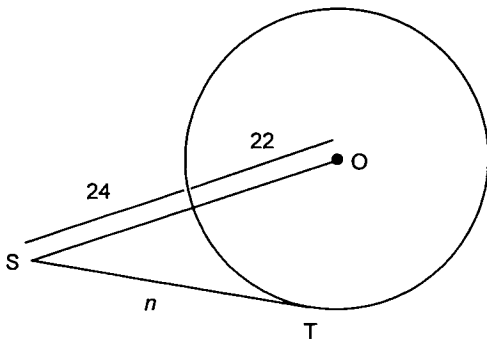
- a. 5.5 b. 11 c. 23.2 d. 35.5

5. O is the centre of this circle and point A is a point of tangency.
Determine the value of m . If necessary, give your answer to the nearest tenth.



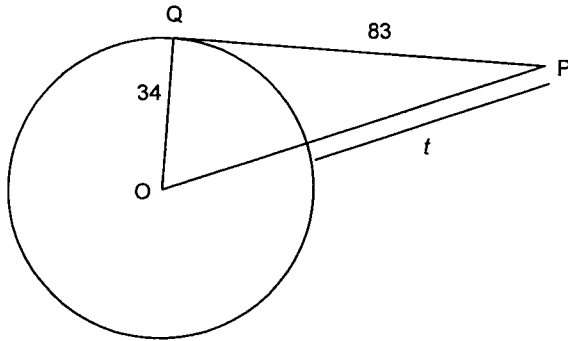
- a. 7.2 b. 26.9 c. 15 d. 22.9

6. O is the centre of this circle and point T is a point of tangency.
Determine the value of n . If necessary, give your answer to the nearest tenth.



- a. 5.7 b. 51 c. 24 d. 40.4

7. O is the centre of this circle and point Q is a point of tangency. Determine the value of t . If necessary, give your answer to the nearest tenth.

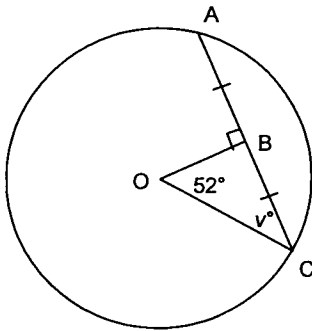


- a. 61.3 b. 55.7 c. 55 d. 82.2

8. A circle has radius 7 cm. Which of the following measures could NOT be the length of a chord in the circle: 2 cm, 11 cm, 14 cm, or 17 cm?

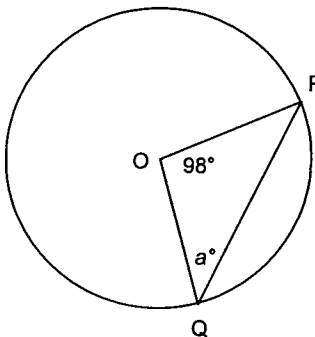
- a. 17 cm c. 2 cm
b. 11 cm d. 14 cm

9. O is the centre of the circle. Determine the value of v° .



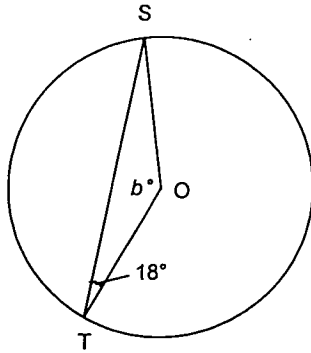
- a. 19° b. 71° c. 52° d. 38°

10. O is the centre of the circle. Determine the value of a° .



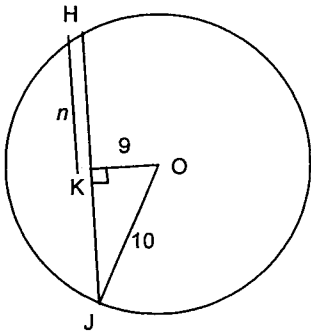
- a. 49° b. 20.5° c. 41° d. 69.5°

11. O is the centre of the circle.
Determine the value of b° .



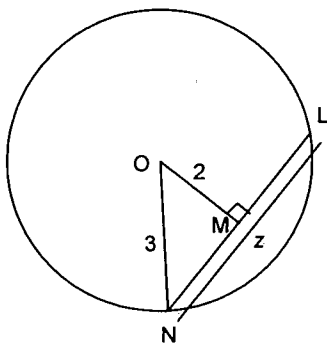
- a. 144° b. 81° c. 72° d. 18°

12. O is the centre of the circle.
Determine the value of n to the nearest tenth, if necessary.



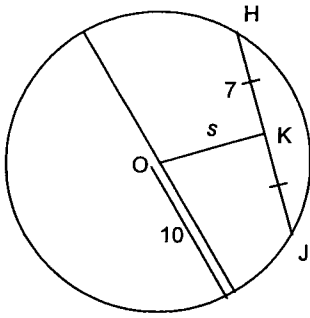
- a. 13.5 b. 4.4 c. 19 d. 1

13. O is the centre of the circle.
Determine the value of z to the nearest tenth, if necessary.



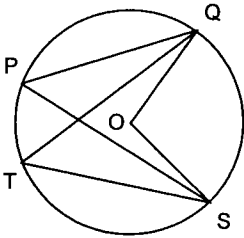
- a. 4.5 b. 3.6 c. 5 d. 1

14. O is the centre of the circle.
Determine the value of s to the nearest tenth, if necessary.



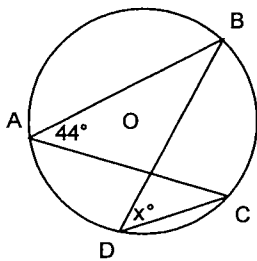
- a. 3 b. 7.1 c. 12.2 d. 51

15. O is the centre of this circle.
Identify all the inscribed angles subtended by the minor arc QS.



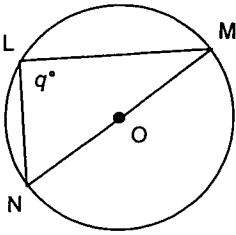
- a. $\angle QOS$ c. $\angle QPS$ and $\angle QTS$
b. $\angle PQT$ and $\angle PST$ d. $\angle QPS$

16. O is the centre of this circle.
Determine the value of x° .



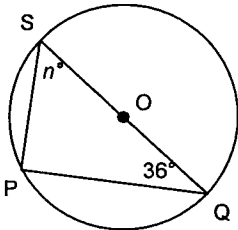
- a. 180° c. 88°
b. 44° d. 90°

- ___ 17. O is the centre of this circle.
Determine the value of q° .



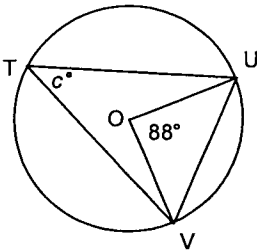
- | | |
|---------------|----------------|
| a. 60° | c. 180° |
| b. 90° | d. 45° |

- ___ 18. O is the centre of this circle.
Determine the value of n° .



- | | |
|----------------|---------------|
| a. 108° | c. 90° |
| b. 54° | d. 36° |

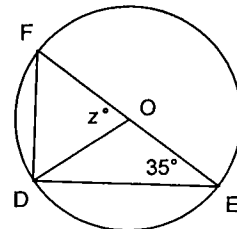
- ___ 19. O is the centre of this circle.
Determine the value of c° .



- | | |
|---------------|----------------|
| a. 90° | c. 180° |
| b. 44° | d. 88° |

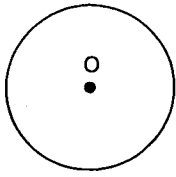
- ___ 20. O is the centre of this circle.
Determine the value of z° .

- | | |
|----------------|---------------|
| a. 55° | c. 90° |
| b. 110° | d. 70° |

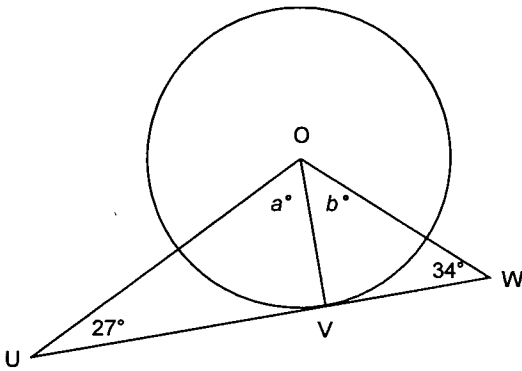


Short Answer

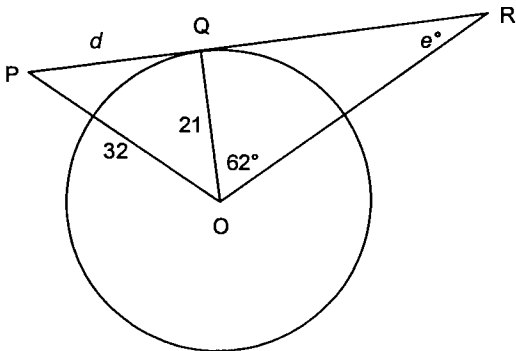
21. Draw a line through point P that is a NOT tangent to the circle.



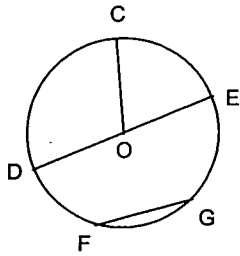
22. O is the centre of this circle and point V is a point of tangency. Determine the values of a° and b° .



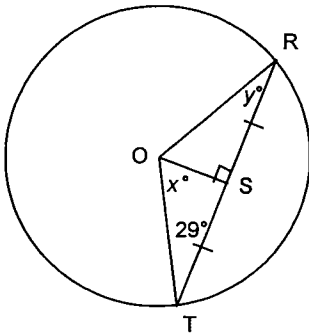
23. O is the centre of this circle and point Q is a point of tangency. Determine the values of d and e° . If necessary, give your answers to the nearest tenth.



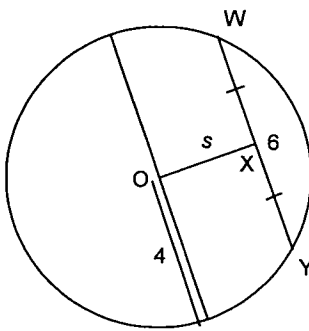
24. O is the centre of this circle.
Which line segment is a diameter?



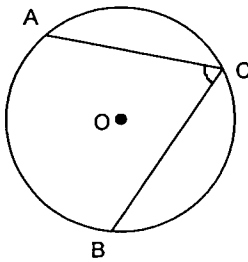
25. Point O is the centre of this circle.
Determine the values of x° and y° .



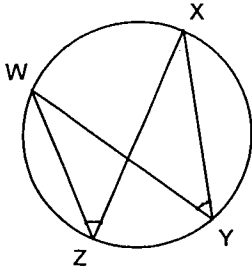
26. Point O is the centre of this circle. Without solving for s , sketch and label the lengths of any extra line segments you need to draw to determine the value of s .



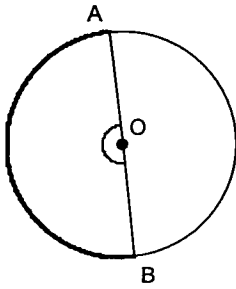
27. O is the centre of this circle. Is $\angle ACB$ a central angle or an inscribed angle?



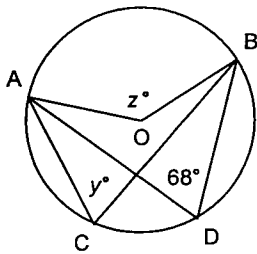
28. What is the relationship between the measures of $\angle WYX$ and $\angle WZX$?



29. Point O is the centre of the circle. Arc AB is a semicircle.
What is the measure of $\angle AOB$?



30. Point O is the centre of this circle.
Determine the values of y° and z° .



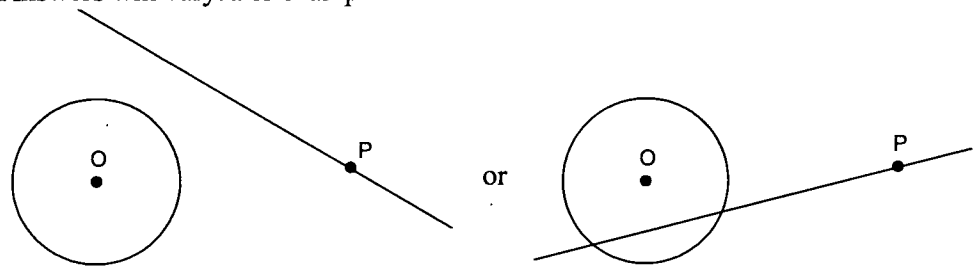
Circles Review Test
Answer Section

MULTIPLE CHOICE

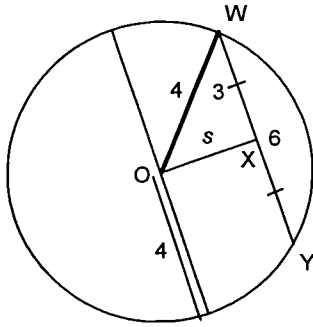
- 1. ANS: B
- 2. ANS: B
- 3. ANS: D
- 4. ANS: C
- 5. ANS: D
- 6. ANS: D
- 7. ANS: B
- 8. ANS: A
- 9. ANS: D
- 10. ANS: C
- 11. ANS: A
- 12. ANS: B
- 13. ANS: A
- 14. ANS: B
- 15. ANS: C
- 16. ANS: B
- 17. ANS: B
- 18. ANS: B
- 19. ANS: B
- 20. ANS: D

SHORT ANSWER

21. Answers will vary. For example:



- 22. $a^\circ = 63^\circ, b^\circ = 56^\circ$
- 23. $d = 24.1, e^\circ = 28^\circ$
- 24. DE
- 25. $x^\circ = 61^\circ, y^\circ = 29^\circ$
- 26. Answers may vary. For example:



27. Inscribed angle
 28. $\angle WYX = \angle WZX$
 29. 180°
 30. $y^\circ = 68^\circ, z^\circ = 136^\circ$