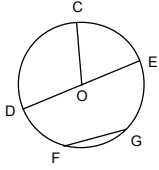


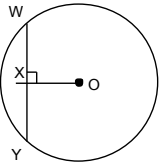
UNIT 8.2 – PRACTICE QUESTIONS

Short Answer

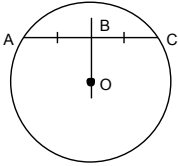
11. O is the centre of this circle.
Which line segment is a diameter?



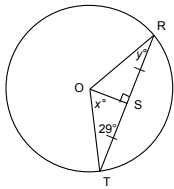
12. O is the centre of the circle.
What can you say about the lengths of WX and XY?



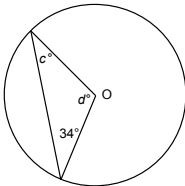
13. O is the centre of the circle.
What can you say about the measure of $\angle OBC$?



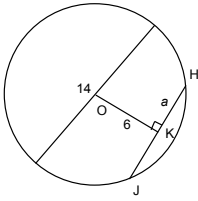
14. Point O is the centre of this circle.
Determine the values of x° and y° .



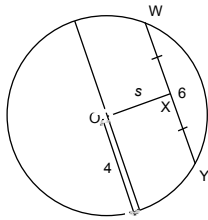
15. Point O is the centre of this circle.
Determine the values of c° and d° .



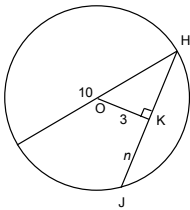
16. Point O is the centre of this circle. Without solving for a , sketch and label the length of any extra line segments you need to draw to determine the value of a .



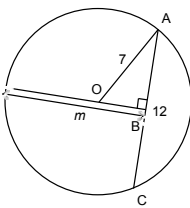
17. Point O is the centre of this circle. Without solving for s , sketch and label the lengths of any extra line segments you need to draw to determine the value of s .



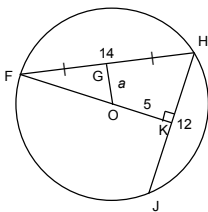
18. Point O is the centre of this circle.
Determine the value of n to the nearest tenth, if necessary.



19. Point O is the centre of this circle.
Determine the value of m to the nearest tenth, if necessary.

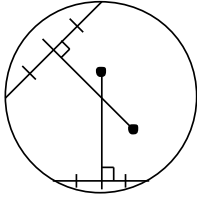


20. Point O is the centre of this circle.
Determine the value of a to the nearest whole number.



Problem

21. Draw a point at the centre of this circle. Label the point O.
How do you know your answer is correct?



22. a) In a circle, can a chord be longer than a diameter of the circle? Explain.
b) In a circle, can a chord be shorter than a radius of the circle? Explain.
23. This arc is part of a circle.
Explain how you could locate the centre of the original circle.



24. A circle has diameter 32 cm. How far from the centre of the circle, to the nearest centimetre, is a chord 20 cm long?
25. A pedestrian underpass is constructed using a cylindrical pipe of radius 2.6 m. The bottom of the pipe will be filled and paved. The headroom at the centre of the path is 3.9 m.
How wide is the path to the nearest tenth of a metre?

