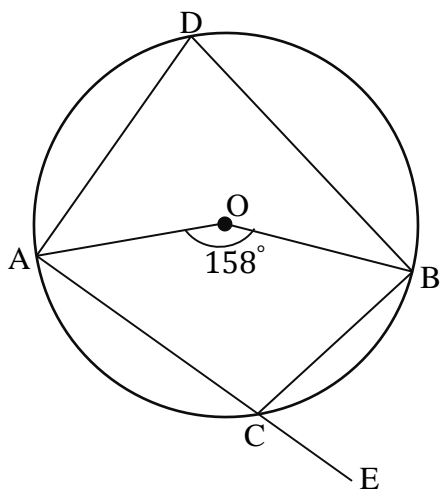


Use the figure below to answer questions 1-5.



1. Calculate the size of  $\angle ADB$ .

2. Calculate the size of reflex  $\angle AOB$ .

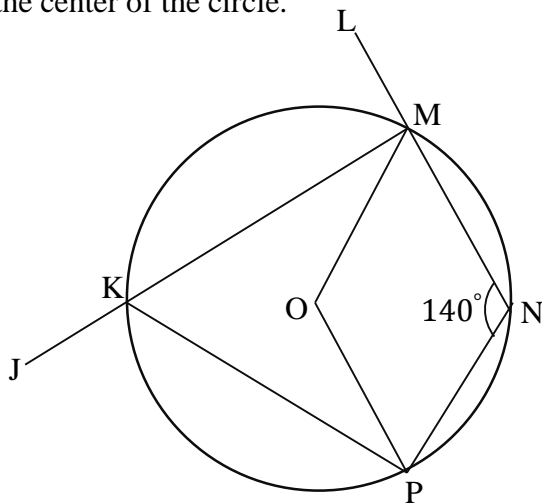
3. Calculate the size of  $\angle ACB$ .

4. Find  $\angle ACB + \angle ADB$ . What do you conclude about the sum of these angles with reference to their position in the quadrilateral above.

5. Calculate the size of  $\angle BCE$ .

**Use the figure below to answer the questions 6-10.**

O is the center of the circle.



6. Find the size of reflex  $\angle MOP$ .

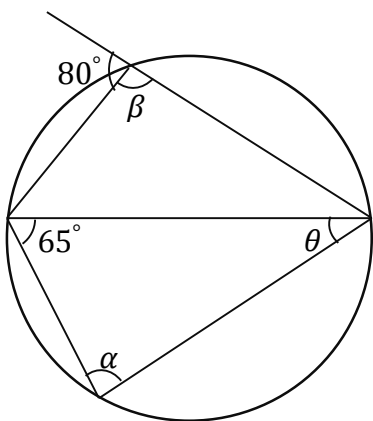
7. Find the size of obtuse  $\angle MOP$ .

8. Find the size of  $\angle MKP$ .

9. Calculate  $\angle MKP + \angle MNP$ . What do you conclude about the sum of these angles with reference to their position in the quadrilateral above.

10. Find the size of  $\angle JKP$ .

Use the figure below to answer questions 11-13.

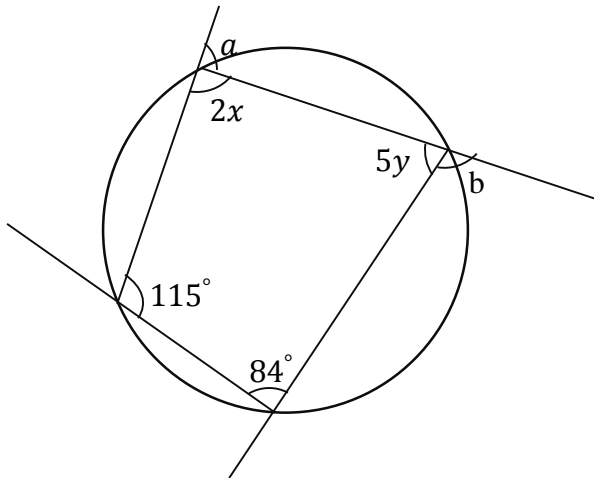


11. Find the value of  $\alpha$ .

12. Find the value of  $\theta$ .

13. Find the value of  $\beta$ .

Use the figure below to answer questions 14-17.



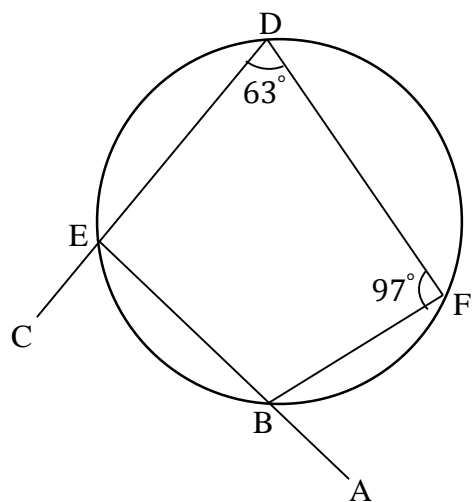
14. Find the value of  $a$ .

15. Find the value of  $b$ .

16. Find the value of  $x$ .

17. Find the value of  $y$ .

Use the figure below to answer questions 18-20.



18. Find the size of  $\angle FBA$ .

19. Find the size of  $\angle DEB$ .

20. Find the size of  $\angle CEB$ .

## Answer Keys

### Day 131:

1.  $79^\circ$
2.  $202^\circ$
3.  $101^\circ$
4.  $180^\circ$ , the sum of opposite angles of a cyclic quadrilateral is  $180^\circ$ .
5.  $79^\circ$
6.  $280^\circ$
7.  $80^\circ$
8.  $40^\circ$
9.  $180^\circ$ , the sum of opposite angles of a cyclic quadrilateral is  $180^\circ$ .
10.  $140^\circ$
11.  $80^\circ$
12.  $35^\circ$
13.  $80^\circ$
14.  $84^\circ$
15.  $115^\circ$
16. 48
17. 13
18.  $63^\circ$
19.  $83^\circ$
20.  $97^\circ$