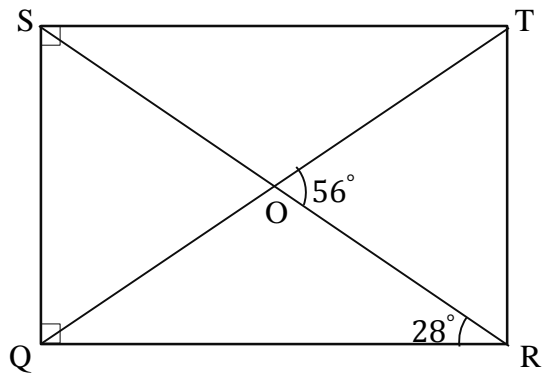


Use the figure below to answer questions 1-11.



1. Which side in  $\triangle SRQ$  is equal to  $ST$  in  $\triangle STQ$ ?
2. Determine the size of  $\angle QST$  in  $\triangle STQ$ .
3. Determine the size of  $\angle SQR$  in  $\triangle SQR$ .

4. Which side is common in  $\Delta STQ$  and  $\Delta SQR$ ?

5. Is  $\Delta STQ \cong \Delta SQR$ ? State a reason for your answer.

6. Is  $QT = SR$ ? State a reason for your answer.

7. Determine the size of  $\angle QTS$ .

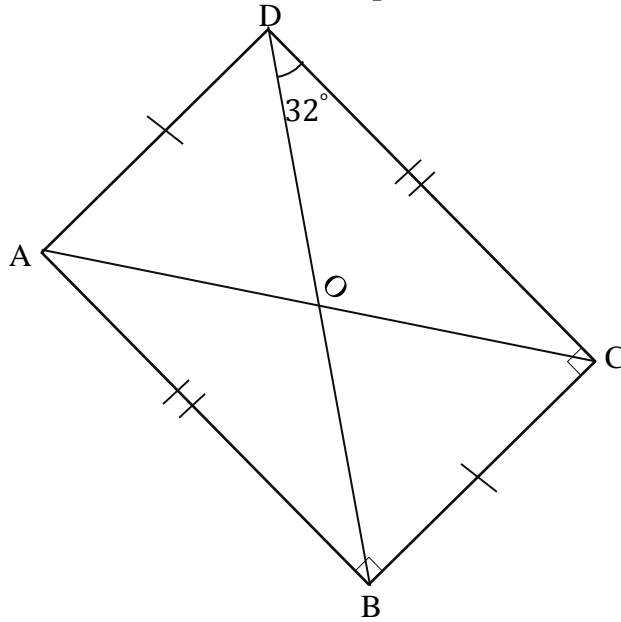
8. Determine the size of  $\angle SOT$ .

9. Determine the size of  $\angle SOQ$ .

10. Determine the size of  $\angle QOR$ .

11. Determine the size of  $\angle RQO$ .

Use the figure below to answer number questions 12 to 20.



12. Which side in  $\triangle BCD$  is equal to AB in  $\triangle BCA$ ?

13. Determine the size of  $\angle BCD$  in  $BCD$ .

14. Determine the size of  $\angle ABC$  in  $\triangle BCA$ .

15. Which side is common in  $\triangle BCD$  and  $\triangle BCA$ ?

16. Is  $\triangle BCD \cong \triangle BCA$ ? State a reason for your answer.

17. Is  $AC = BD$ ? State a reason for your answer.

18. Determine the size of  $\angle BAC$ .

19. Determine the size of  $\angle ACD$ .

20. Determine the size of  $\angle ABD$ .

## Answer Keys

### Day 114:

1. QR
2.  $90^\circ$
3.  $90^\circ$
4. SQ
5. Yes.  $ST = QR$ , SQ is common and the included angles are equal.
6. Yes. They are corresponding sides in two congruent angles.
7.  $28^\circ$
8.  $124^\circ$
9.  $56^\circ$
10.  $124^\circ$
11.  $28^\circ$
12. DC
13.  $90^\circ$
14.  $90^\circ$
15. BC
16. Yes.  $AB = DC$ , BC is common and the included angles are equal.
17. Yes. They are corresponding sides in two congruent angles.
18.  $32^\circ$
19.  $32^\circ$
20.  $32^\circ$