Maple Online Classes

8th Maths

Class 8 Test: Understanding Quadrilaterals

Time 120
Marks 50

Instructions

- Attempt all Questions.

1. A rectangle whose adjacent sides are equal becomes a _____. **(1)**

2. Every square is a rhombus. **(1)**

3. Sum of all the angles of a quadrilateral is 180°. **(1)**

4. The measure of _____ angle of concave quadrilateral is more than 180°. **(1)**

5. Every trapezium is a rectangle. **(1)**

6. The measure of each exterior angle of a regular polygon of 18 sides is _____. **(1)**

7. The sum of interior angles of a polygon of n sides is _____right angles. **(1)**

8. A polygon is a simple closed curve made up of only _____. **(1)**

9. A quadrilateral can be drawn if all four sides and one diagonal is known. **(1)**

10. The sum of all exterior angles of a polygon is _____. **(1)**

11. Every kite is a trapezium. **(1)**

12. The diagonals of a rhombus bisect each other at ____ angles. **(1)**

13.  is a concave polygon. **(1)**

14. **(1)**

 is a simple closed curve.

15. The adjacent sides of a parallelogram are 5 cm and 9 cm. Its perimeter is _____. **(1)**

16. A rhombus can be constructed uniquely if both diagonals are given. **(1)**

17. A polygon having 10 sides is known as _____. **(1)**

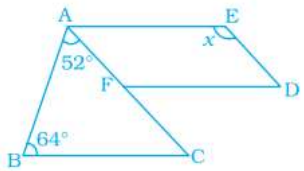
18. A quadrilateral can be drawn if only measures of four sides are given. **(1)**

19. Every rhombus is a kite. **(1)**

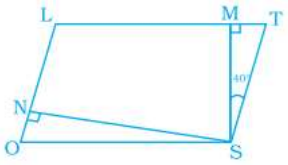
20. The measure of each exterior angle of a regular pentagon is _____. **(1)**

21. Construct a trapezium ABCD where AB||CD, AD = BC = 3.2cm, AB = 6.4 cm and CD = 9.6 cm. Measure $\angle B$ and $\angle A$. **(3)**
[Hint : Difference of two parallel sides gives an equilateral triangle.]

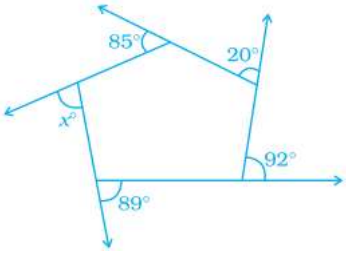
22. In the following figure, FD||BC||AE and AC||ED. Find the value of x. **(3)**



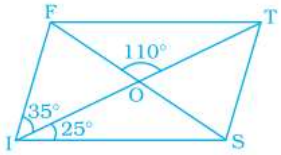
23. In parallelogram LOST, SN⊥OL and SM⊥LT. Find $\angle STM$, $\angle SON$ and $\angle NSM$. **(3)**



24. In the figure, find the value of x. **(3)**

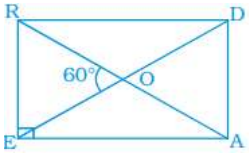


25. In parallelogram FIST, find $\angle SFT$, $\angle OST$ and $\angle STO$. **(3)**



26. Construct a square in which each diagonal is 5cm long. **(3)**

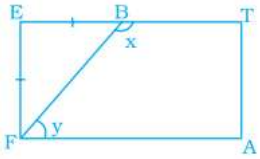
27. In rectangle READ, find $\angle EAR$, $\angle RAD$ and $\angle ROD$ **(3)**



28. Two angles of a quadrilateral are each of measure 75° and the other two angles are equal. What is the measure of these two angles? Name the possible figures so formed. **(3)**

29. Construct a trapezium RISK in which RI||KS, RI = 7 cm, IS = 5 cm, RK=6.5 cm and $\angle I = 60^\circ$. **(3)**

30. A playground is in the form of a rectangle ATEF. Two players are standing at the points F and B where EF = EB. Find the values of x and y. **(3)**



Email: swayam911@gmail.com Phone: +91-7982760217 Address: A-25 DLF Loni Ghaziabad UP-201301