

Swotters Academy

Test / Exam Name: Maths - Practical Geometry Standard: 8th Subject: Mathematics Questions: 26 Time: 01:45 hh:mm Marks: 50

Instructions

- Insulaction on new page
 2. Rough work on right hand side
 3. Honesty is the best policy, Good Luck.
 4. Keep the timer & make sure to spare 10 min for rechaecking your paper

4.1	Reep the timer & make sure to spare to min for rechaecking your paper	
	SECTION-A	
1.	Which of the following quadrilaterals has two pairs of adjacent sides equal and its diagonals intersect at 90 degrees?	1 Mari
(2.	A Rhombus B Rectangle C Square D Kite If a diagonal of a quadrilateral bisects both the angles, then it is a:	1 Mar
Į3.	A kite B parallelogram C rhombus D rectangle The angle sum of a convex polygon with number of sides 8 is:	1 Mar
24.	A 720º B 900º C 1080º D 1440º How many sides does a regular polygon have if the measure of an exterior angle is 24º?	1 Mar
Q 5.	A 6 B 9 C 15 D 12 The sum of the internal angles of a polygon is 10 right angles. Then the number of sides is:	1 Mar
Q 6.	A 5 B 6 C 7 D 8 A quadrilateral whose all sides are equal, opposite angles are equal and the diagonals bisect each other at right angles is a	1 Mar
07.	A rhombus B parallelogram C square D rectangle Which one of the following is a regular quadrilateral?	1 Mar
Q8.	A Rectangle B Kite C Square D Trapezium	1 Mar
Q9.	A Both A and R are true and R is the correct explanation of A. C A is true but R is false. D A is false but R is true. D A is false but R is true. D A is false but R is true.	1 Mai
Q10.	In a quadrilateral, define the following: Opposite sides.	1 Ma
Q11.	Fill in the blanks the following so as to make the statement true: A rectangle is a parallelogram in which	1 Ma
Q12.	ABCD is a rectangle. Its diagonals meet at O. A $ \begin{array}{c} A \\ A \\ D \end{array} $ OA = 2x - 1, OD = 3x - 2. Find x	1 Mai
Q13.	A 1 B 2 C 3 D -1 In the figure. BEST is a rhombus. Then the value of y = x is:	1 Mar



SECTION-B

C 20°

SECTION-B

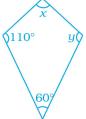
D 10





Q26. In a quadrilateral ABCD, CO and DO are the bisectors of $\angle C$ and $\angle D$ respectively. Prove that $\angle COD = \frac{1}{2}(\angle A + \angle B)$.

Q14. Find the values of x and y in the following kite.



Q15. A playgro und in the town is in the form of a kite. The perimeter is 106 metres. If one of its sides is 23 metres, what are the lengths of other three 2 Marks



Q16. Find the measure of an are exterior angle of a regular pentagon and an exterior angle of a regular decagon. What is the ratio between these two 2 Marks

Q17. Find the measure of each exterior angle of a regular: Polygon of 15 sides. 2 Marks 2 Marks

Q18. In the figure, find the value of x.



Q19. Explain how this figure is a trapezium. Which of its two sides are parallel? $N \longrightarrow M$ 2 Marks



Find the measure of $\angle P$ and $\angle S$ if $\overline{SP}|\overline{RQ}$ in fig (if you find $\angle R$ is there more than one method to find $m\angle P$?) R



Q21. The measures of two adjacent angles of a parallelogram are in the ratio 3 : 2. Find the measure of each of the angles of the parallelogram.

 $\textbf{Q22.} \ \ \mathsf{ABCD} \ \text{is a trapezium such that } \ \mathsf{AB} | \ | \ \mathsf{CD}, \angle D, \angle A : \angle D = 2 : 1, \angle B : \angle C = 7 : 5 \ \mathsf{Find} \ \mathsf{the angles} \ \mathsf{of the trapezium}.$

3 Marks

3 Marks