

MAHESHWARI PUBLIC SCHOOL, AJMER  
CLASS TEST : II ; SESSION:2018-19  
CLASS: IX; SUBJECT: MATHS

Time: 40 Min

M M: 20

General Instruction:

1. All 11 questions in the paper are compulsory to attempt.
2. Marks are indicated against each question.

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1. In a parallelogram ABCD,  $\angle A = 100^\circ$ . Find the  $\angle B$ . 1
  2. Write the statement of Converse of Mid-Point Theorem. 1
  3. Identify the quadrilateral ABCD, in which  $AB=BC=CD=DA$  and  $AC \neq BD$ . 1
  4. Find the mean of first 7 multiples of 7. 1
  5. Find the mean of  $x+3, x-2, x+5, x+7$  and  $x+12$ . 1
  6. Show that diagonals of a square bisect each other at  $90^\circ$ . 2
  7. In a parallelogram ABCD,  $\angle A = (3x-2)^\circ$  and  $\angle C = (2x+23)^\circ$ . Find  $x$ . 2
  8. The points scored by a Kabaddi team in a series of matches are as follows: 2  
17, 2, 7, 27, 15, 5, 14, 8, 10, 24, 48, 10, 8, 7, 18, 28  
Find the mean of the point scored by the team.
  9. Prove that the line segment joining mid points of two sides of a triangle is parallel and half of the third side. 3
  10. ABC is a triangle right angled at C. A line through the mid-point M of the hypotenuse AB and parallel to BC intersects AC at D. Show that 3  
i) D is the mid-point of AC. ii)  $MD \perp AC$  iii)  $CM = MA = \frac{1}{2} AB$
  11. Find the mean of the following frequency table: 3

X	0	1	2	3	4	5	6
f	5	12	30	80	13	7	3

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