



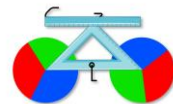
# MATHSGYM



**TEST DATE: 03/08/2021**

**TOPIC: AREA OF PLANE FIGURES**

**CLASS – 8, Bangalore, Mumbai**



# INSTRUCTIONS & INFORMATION

- **WRITE THE FOLLOWING ON THE FIRST PAGE OF YOUR ANSWER SHEET**
  - NAME:
  - CLASS: - 8
  - TOPIC: - AREA OF PLANE FIGURES
  - DATE : - 3<sup>RD</sup> AUGUST 2021
- 
- **TOTAL TIME:- 1 Hr ;**                      **TOTAL MARKS :- 20**

# GENERAL INSTRUCTIONS

- All questions are compulsory.
- This question paper consists of following sections.
- Section - A comprises 5 questions of 1 mark each. (5 marks)
- Section - B contains 1 case study comprises of 4 case based MCQs (4 marks)
- Section - C comprises of 3 questions of 2 marks each (8 marks)
- Section - D comprises 1 questions of 3 marks. (3 marks)

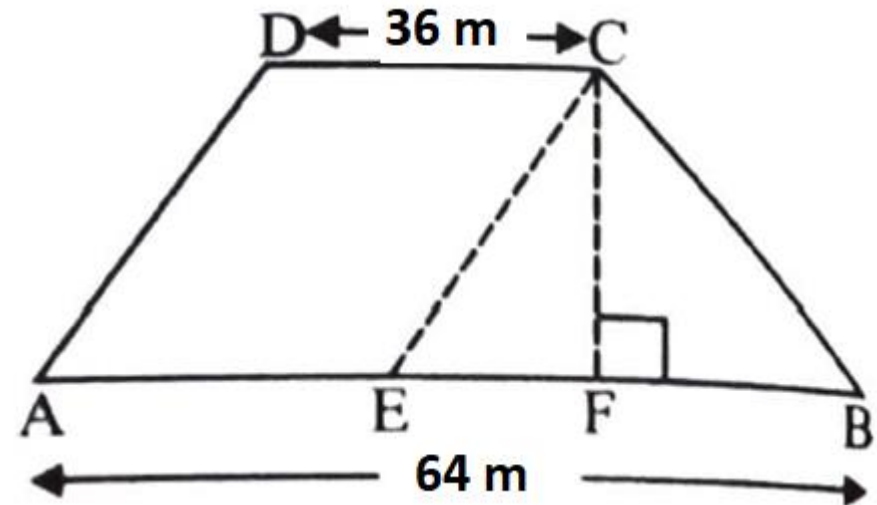
## SECTION A (1 mark for every question in this section)

1. Find the area of rhombus, whose diagonals are 12cm and 8 cm.
2. Find the area of the trapezium whose Length of bases are 13cm and 7 cm. The height of trapezium is 10 cm.
3. A tile is in the shape of parallelogram of base 5cm and corresponding height is equal to 3 cm. Find the area.
4. Find the circumference of a circle whose radius is 7 cm.
5. In an isosceles trapezium, the non-parallel sides are equal. ( True / False)

## SECTION B (4 marks total for this section)

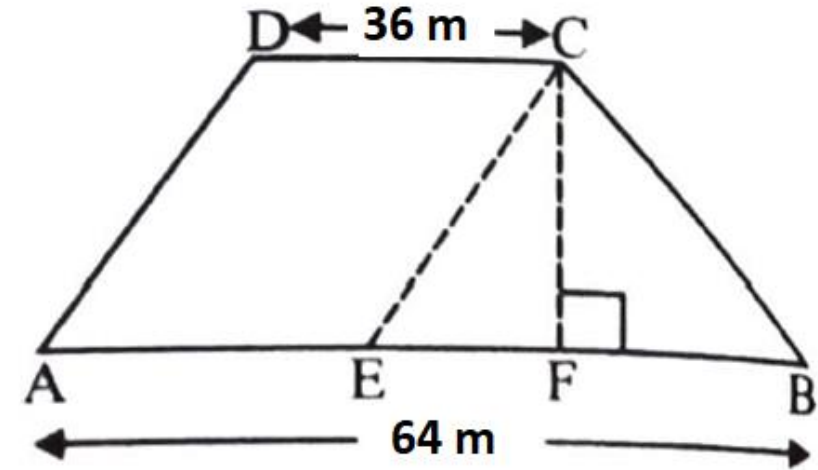
6. A field ABCD is in the shape of trapezium where  $AB \parallel CD$ ,  $AB = 64$  and  $CD = 36$  m. A triangular flowerbed EBC is cut in such a way that the shape of the remaining becomes a **parallelogram**. Area of the entire field is 1050 m.

Answer the questions in the next page:



## SECTION B continued..

- i. Height of trapezium is:  
a) 10m b) 20m c) 21m d) 30m
- ii. Length of AE is  
a) 36m b) 64m c) 100m d) 22 m
- iii. Area of flower bed EBC is  
a)  $336 \text{ m}^2$  b)  $226 \text{ m}^2$  c)  $446 \text{ m}^2$  d) None of these
- iv. Area of the remaining field AECD is  
a)  $514 \text{ m}^2$  b)  $614 \text{ m}^2$  c)  $714 \text{ m}^2$  d)  $814 \text{ m}^2$

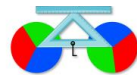
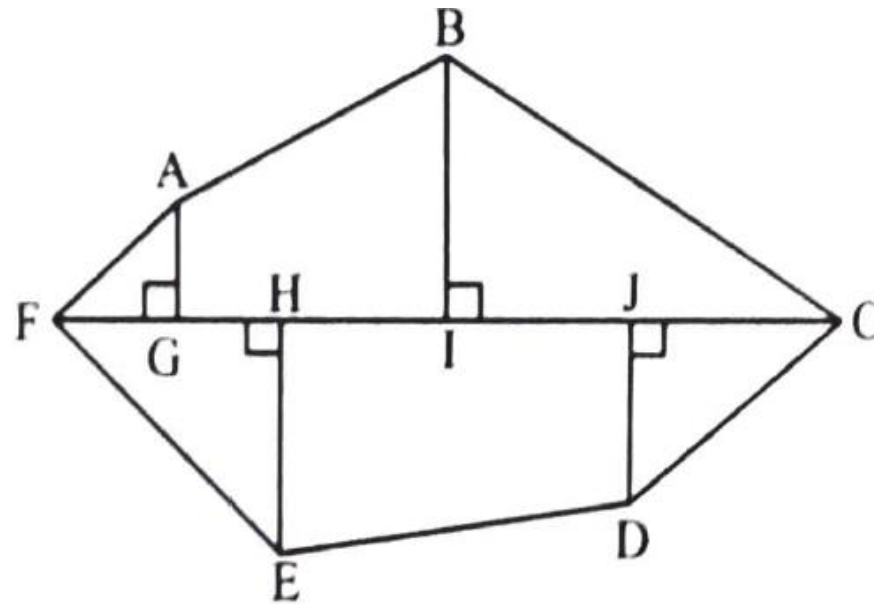


## SECTION C (2 marks for every question in this section)

7. The area of a rhombus is  $60 \text{ cm}^2$ . If one of its diagonals is 15 cm, find the other diagonal.
8. The area of a quadrilateral is  $750 \text{ m}^2$ . If the perpendicular distance from the opposite vertices are 7 m and 8 m, find its diagonal
9. The area of a square is  $16 \text{ cm}^2$ . Find the area of the square joining the midpoints of its sides.
10. The area of a trapezium is  $60 \text{ cm}^2$ . The two parallel sides are 16 cm and 24 cm. Find the distance between the two parallel sides.

## SECTION D (3 marks for every question in this section)

11. Find the area of the field ABCDEF if  $FC = 120\text{m}$ ,  $FG = 25\text{m}$ ,  $FH = 40\text{m}$ ,  $FI = 62\text{m}$ ,  $FJ = 80\text{m}$  and the perpendiculars  $AG = 30\text{m}$ ,  $EH = 38\text{m}$ ,  $BI = 50\text{m}$  and  $DJ = 34\text{m}$ .



End of Question Paper