Model Test Paper-II

(Based on Chapters 9 to 15)

Instructions :

1. All questions are compulsory.

2. The question paper consists of 18 questions divided into three sections — A, B, C. Section A consists of 10 questions of 2 marks each, section B of 5 questions of 3 marks each and section C of 3 questions of 5 marks each.
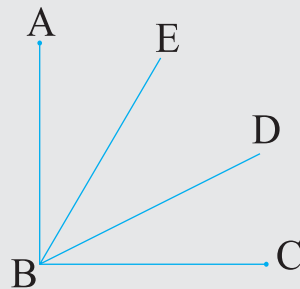
SECTION - A

1. **Simplify :** $\dfrac{3x}{5} = 81$

2. **Write two equivalent rations for the following :**

   (a) $\dfrac{21}{36}$　　　　　　　　　(b) $\dfrac{4}{7}$

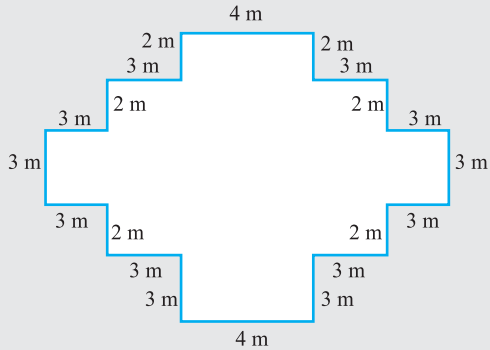3. **Name all possible angles for the given figure.**

4. What fraction of a clockwise revolution does the hour hand of clock turn through, when it goes from 4 to 7.

5. The perimeter of the rectangular ground is 340 m. Find the breadth if its length is 100 m.

6. If the cost of 5 trousers is ₹ 3125, find the cost of 7 trousers.

7. Bunty gets ₹ 850 as pocket money per month. If he saves ₹ 375, find the ratio between his expenditure and savings.

8. Differentiate between median and centroid of a triangle.

9. In a right angled triangle if one angle measures 60°, find other angles.

10. Find the perimeter of a rectangle whose length and breath are 125 cm and 1 m respectively.

11. Draw the perpendicular bisector of a line segment AB = 7.2 cm. Do write the steps of construction.
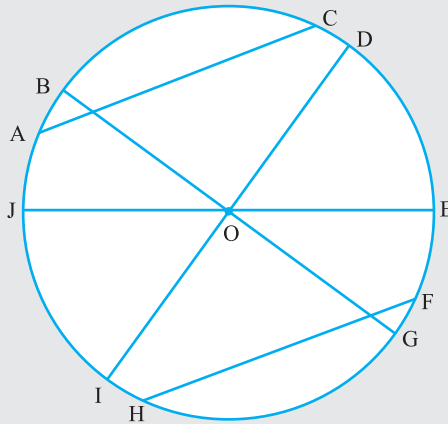
12.

Find the perimeter of the given closed figure.

13. **Solve :**

$$\frac{2x+1}{3} - \frac{3x-4}{5} = 2$$

14. **For the given circle, name the following:**

(a)   Radii   (b)   Diameters   (c)   Chords   (d)   Centre

15. Classify a triangle based on their angles. Do define each type with figures.

16. **Simplify :**

(a) $\frac{3x+4}{2} = 8$ by systematic method   (b) $\frac{2x+4}{3} = 4$ by trial and error method.

17. Writing all the steps of construction draw an angle of 135° with the help of compass. Do bisect the angle and find its value.

18. The following table represents number of runs scored by Indian players in recently concluded ODI series with Australia.

Players	Sehwag	Gautam	Virat	Raina	Dhoni	Yuvraj
Runs scored	200	300	400	175	325	275

Represent above information in the form of a bar graph.