Subject – Mathematics

Class – VI

Set - 2

TIME: - 3 Hrs.   **M.M.:- 80**

Instructions:-

(i) Read all question carefully before attempting them.
(ii) All questions are compulsory.
(iii) Marks are allotted against questions.
(iv) Write the answers against the space provided.
(v) Write neatly and clearly.

SECTION – A

Answer the following: **(1 X 5 = 5)**

Que.1. What is the perimeter of a regular hexagon of side 5cm?

Que.2. What is 8 more than (-9) equal to?

Que.3. $12 \times (45 + 30) = $ _____

    (a) 12×65
    (b) $12 \times 45 \times 30$
    (c) $(12 \times 45) + (12 \times 30)$
    (d) $(12 \times 45) \times (12 \times 30)$

Que.4. The sum of 235 + 164 to nearest ten is _____

    (a) 500
    (b) 400
    (c) 300
    (d) 200

Que.5. Express 70km 5m as kilometre using decimals.

SECTION – B

Answer the following: **(2 X 10 = 20)**

Que.6. Write the number name of the followings:

    (a) 8,98,23,061   (b) 74,65,239

Que.7. Draw any polygon. Name it and shade its interior.

Que.8. Solve the following by using trial and error: -

    (a) $7x - 22 = 20$ (b) $3x + 5 = 20$

Que.9. Find the cost of flooring a square room with side 7 cm, at Rs.14.50 per sq. cm.

Que.10. Determine of 33, 121, 9, 96 are in proportion.

Que.11. Find the area of a rectangle with length = 17.8m and breadth = 1200 cm.

Que.12. Aakash bought vegetables weighing 10kg. Out of this, 3kg 500g is onions, 2kg 75g is tomatoes and the rest is potatoes. What is the weight of the potatoes?

Que.13. The teacher distributes 10 chocolates per student. Can you tell how many chocolates are needed, given the number of students? (Use s for the number of students).

Que.14. John takes $2\frac{1}{5}$ minutes to walk across the school ground. Bob takes $\frac{7}{4}$ minutes to do the same. Who takes less time and by what fraction?

Que.15. Find the following:

    (a) $39.025 + 1.96 + 736$ (b) Subtract 7.036 km from 15 km

<u>SECTION – C</u>

Answer the following: **(3 X 5 = 15)**

Que.16. Cost of a dozen water bottles is Rs.1800 and cost of 8 ball lunch box is Rs.560. Find the ratio of the cost of a water bottle to the cost of a lunch box.

Que.17. Arrange the fractions $\frac{2}{3}$, $\frac{1}{6}$, $\frac{5}{9}$ and $\frac{7}{12}$ in ascending order.

Que.18. Given AB of length 7.3cm and CD of length 3.4cm, construct a line segment XY such that the length of XY is equal to the difference between the lengths of AB and CD. Verify by measurement.

Que.19. Subtract the difference of 325.21 and 14.611 from the sum of 367.27 and 9.32

Que.20. The length and breadth of a rectangle are in the ratio 5 : 4. If its length is 80 cm, find the breadth.

SECTION – D

Answer the following: (4 X 10 = 40)

Que.21. Construct with ruler and compass angles of the following measures:

(a) 30° (b) $22\frac{1}{2}°$

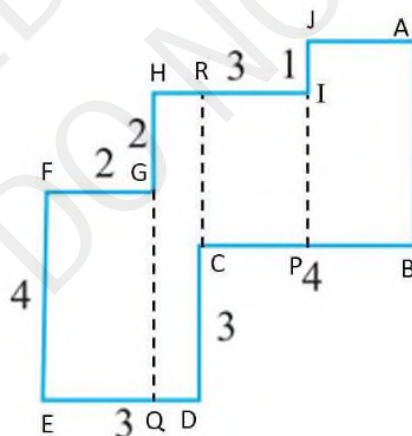**Que.22.** A car travels 90 km in $2\frac{1}{2}$ hours.

(a) How much time is required to cover 30 km with the same speed?
(b) Find the distance covered in 2 hours with the same speed.

Que.23. Give two equivalent ratios of 8 : 18.

Que.24. Bob bought a mobile phone for Rs.8,000 and spent Rs.500 on its spares. He later sold it for Rs.9,500. Find his gain or loss percent.

Que.25. By splitting the following figure into rectangles, find their areas.

Que.26. The number of Mathematics books sold by a shopkeeper on six consecutive days is shown below:

Days	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Number of books sold	60	40	30	50	20	70

Draw a bar graph to represent above information choosing the scale of your choice.

Que.27. Jack had 20 pencils, Emma had 50 pencils and Peter had 80 pencils. After 4 months, Jack used up 10 pencils, Emma used up 25 pencils and Peter used up 40 pencils. What fraction did each use up? Check if each has used up an equal fraction of her/his pencils.

Que.28. Every morning Harry and George go for a jog, Harry takes 3 rounds of a square park of side 200m, while George takes 4 rounds of a rectangular park of length 150m and breadth 100m. Solve and find who covers a greater distance?

Que.29. David earns Rs.21000 in 3 months.

(a) How much will he earn in 8 months.
(b) In how many months will he earn Rs.175000

Que.30. Draw an angle of measure 153° and divide it into four equal parts.