GREENLAWNS HIGH SCHOOL

STD-VI   DIV-A,B,C   SUBJECT-**MATHS**   MARKS-80

DATE- 13-02-25   FINAL EXAMINATION   DURATION-2 HOURS
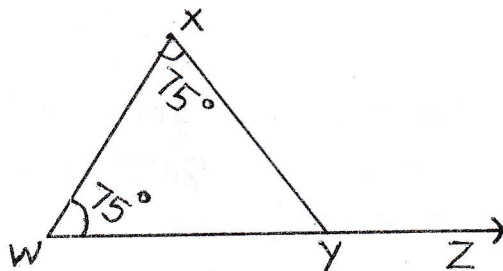
NOTE:

Do not copy questions.

Write correct question number to the respective answer.

Q1] MULTIPLE CHOICE QUESTIONS: [10]

1) The mean of first 7 odd numbers is_____

   a) 5   b) 7   c) 8   d) 1

2) If area of a rectangle is 250 m² and breadth is 25 m then length is _____m.

   a) 10   b) 250   c) 625   d) 275

3) In $\triangle PQR$, if $\angle P = 75°, \angle Q = 45°,$ then $\angle R$ is _____

   a) 65°   b) 55°   c) 60°   d) 75°

4) A bus covers 42 km in 3 hours. The speed of a bus is _____

   a) 50.4 km/hr   b) 3.6 km/hr   c) 42 km/hr   d) 14 km/hr

5) The number of boys and girls in a school are 78 and 32. Hence the ratio of boys: girls is _____

   a) 16:39   b) 39:16   c) 78: 32   d) 32:78

6) In the given figure, $\angle XYZ$ is an exterior angle of $\triangle XYW$. The measure of $\angle XYZ$ is _____

   a)75°   b) 50°   c) 150°   d) 100°

7) A dog runs around a ground covers a distance of 16 km with the speed of 4 km/hr so the time required is _____

   a) 4 hrs   b) 64 hrs   c) 8 hrs   d) 2 hrs

8) The ratio of 9 months to 15 months is _____

   a) 5:3   b) 3:5   c) 3:2   d) 3:15

9) The perimeter of a regular pentagon with side 34 cm is _____

   a) 1156 cm   b) 170 cm   c) 204 cm   d) 70 cm

10) The mean of 3,4,5,7,8,9,is _____
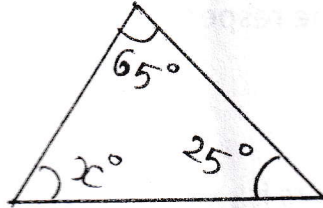
   a) 2   B) 29   c) 6.2   d) 6

Q2] [20]

1) Express the following ratios in its simplest form.

   0.6 Kg : 280 g

2) A car travelled a distance of is 32 km in 3 hours and 12 mins. Find its speed in km/hr.

3) From the given figure below find the value of x.

4) If the perimeter of a square is 1208 cm. Find its side.

5) The mean of 16,26, 12,x and 42 is 154. Find the value of x.

6) Is the ratio of 75g and 185 g same as the ratio of 45 cm to 111 cm?

7) A train covers a distance of 343 km in 7 hours. Find
   (i) Speed   (ii) Distance covered by the train in 7.3 hours.

8) One angle of a right angled triangle is 35 °. Find the other angle.

9) Find the perimeter of a rectangle whose length =12.8 m and

   breadth = 350 cm.

10) Find the median of 2.3, 4.2, 6.6, 3.9, 5.4 and 1.5

Q3]

1) An aeroplane covered 3750 km in 2 hours 5 mins. Find its speed in m/s.   [3]

2) The ratio of men to women in a village is $5 : 7$ If there are 545 men in the village .find the number of women.   [3]

3) A square card has each side 35 m whereas a rectangular card has length =25 m and breadth = 20 m, which of the two cards has a greater perimeter and by how much?   [4]

Q4]

1) If the angles of the triangle are $3x, 5x, 7x$. find each angle of the triangle.   [3]

2) The mean of 5, 3, 2, 7,8, x+1 is 36. Find x.   [3]

3) A man starts jogging and covers a distance of 3 km in 2 hours. He continues jogging and goes to a shop covering a distance of 7 km in 3 hours, he then goes to a friend's place which is 4 km away in 4 hours. Find his average speed in the

Q5]

1) The monthly salary of a person is ₹ 93000 and his monthly expenditure is ₹27000. Find the ratio of his: [3]
   a) Salary to expenditure.
   b) Saving to salary.

2) A rectangular lawn has length = 220 m and breadth= 130 m. find: [3]
   a) The length of the fence required to enclose the lawn.
   b) The cost of fencing the lawn at the rate of ₹68 per m.
   c) The area of the rectangle.

3) (i) Find the median of : 19,5,8,10,12,16,15.   [4]
   (ii) If the mean of x, x+1, x+2 and x+3 is 26. Find x.

Q6]

1) A fish swims 450 m in the water and returns back to the starting point in 5 mins. Find the speed of the fish in m/s and km/hr.   [3]

2) In ΔXYZ if $\angle X = \angle Y = \angle Z$ then find all three angles.   [3]

3) Divide 153 in the ratio $3\frac{1}{3} = 2\frac{2}{3}$ [4]

Q7]

1) The weekly expenses of Pramila have decreased from ₹ 2500 to ₹ 1750.   [3]
   Find the ratio of the following:
   a) Decrease in expenses to original expenses.
   b) Original expenses to decreased expenses.

2) Bunty covers a certain distance in 8 hours at a speed of 64 km/hr.   [3]
   a) Find the time taken by Babli to cover the same distance at a speed of 4 km/hr.
   b) Find the speed of John if he takes 5 hours to complete the same distance.

3) Each side of a square is 42 cm and a rectangle has length 75 cm. If the perimeters of both (square & rectangle) are same find the breadth of the rectangle.   [4]

_____ALL THE BEST_____