

**DELHI PUBLIC SCHOOL, JAMMU**  
**REVISION SHEET FOR FINAL EXAMINATION**

**SESSION: 2017-18**

**CLASS: VII**

**SUBJECT: MATHEMATICS**

**SECTION-A**

- Q1: Find the area of square plot whose perimeter is 136m.  
Q2: Find the area of a rectangular plot whose one side is 24m and the diagonal is 25m.  
Q3: In  $\triangle ABC$ , altitude AD bisects BC. Prove that  $\triangle ADB \cong \triangle ADC$ , write equal pair of sides of these two triangles.  
Q4: Draw a pair of parallel lines at a distance of 4.5cm from each other.  
Q5: Draw an Isosceles  $\triangle ABC$  in which  $AB = 5\text{cm}$ ,  $BC = 6.5\text{cm}$ ,  $AC = 6.5\text{cm}$ .  
Q6: Find the median of the values  
15, 10, 18, 25, 20, 30  
Q7: The teacher tells the class that the highest marks obtained by a student in her class is twice the lowest marks plus 7. The height score is 87. What is the lowest score?  
Q8: From the sum of  $3x - y + 11$  and  $-y - 11$ , subtract  $3x - y - 11$ .  
Q9: If the circumference of a circular sheet is 154m, find its radius, also find the area of the sheet.

**SECTION-B**

- Q10: Find the perimeter of the semi circle having diameter 14cm.  
Q11: Following are the margins of the victory in the football matches of a league.  
1,3,2,5,1,4,6,2,5,2,2,2,4,1,2,3,1,1,2,3,2,6,4,3,2,1,1,4,2,1,5,3,3,2,3,2,4,2,1,4,2  
Organise the data in the form of frequency distribution table.  
Q12: Solve  $3(x-1) + 2(2x+3) = 7$ .  
Q13: The perimeter of a rectangle is 70cm. If its length exceeds its breadth by 5cm, find the dimensions of the rectangle.  
Q14: If  $P = x^2 + 6$ ,  $Q = 3x^2 - x + 2$  and  $R = x^2 - 4x$ , then find  $P+Q-R$ .  
Q15: Sale of the English and Hindi books in the years 1995 , 1996 , 1997 and 1998 are given below:

Years	1995	1996	1997	1998
English	350	400	450	620
Hindi	500	525	600	650

Draw a double bar graph .

**SECTION-C**

- Q16: The cost of 12 pencil is Rs.  $37\frac{1}{5}$ . Find the cost of one pencil.  
Q17: Two cross-roads each of 5m run at right angles through the centre of a rectangular park 70m by 50m, such that each is parallel to one of the sides of the rectangles. Find the area of the remaining portion of the park.  
Q18: If area of Rhombus is  $128\text{cm}^2$  and one of its diagonals is 16cm, find the lengths of its other diagonal.  
Q19: By applying ASA congruence rule, it is to be established that  $\triangle ABC \cong \triangle QRP$  and it is given that  $BC = RP$ . What additional information is needed to establish the congruence?

Q20: Given below is the expenditure of a family spent under various heads:

Various Leads	Food	House Rent	Education	Health
Expenditure	15	30	20	10

Represent data in the form of a bar graph.

Q21: A garden is 90m long and 75m broad. A path 5m wide is to be built outside and around it. Find the area of the path, Also find the area of the garden in hectare.

Q22: Raju's father's age is 5 years more than three times Raju's age. Find Raju's age, if his father is 44 years old.

### SECTION-D

Q23: Solve

a)  $4(m+3)=18$

b)  $-2(x+3)=8$

Q24: The runs scored in a cricket match by 11 players is as follows.

6, 15, 120, 50, 100, 80, 10, 15, 8, 10, 15

Find the mean, mode and median of this data.

Q25: A cricketer scores the following run in eight innings.

58, 76, 40, 35, 46, 45, 0, 100

Find the mean score

Q26: The sum of three consecutive integers is 48. Find the integers.

Q27: Think of a number. Take away 6 from  $\frac{7}{2}$  of the number. The result is 22. Find the number?

Q28: If the area of parallelogram is 1470 sq cm, AB = 35cm and AD = 49cm, Find the lengths of BE and DF.

Q29: A dice is thrown once. Find the probability of getting.

i) A number divisible by 2

ii) A prime number

iii) A number greater than 4

Q30: Construct  $\triangle ABC$  such that AB = 2.5cm, BC = 6cm and AC = 6.5cm. Measure  $\angle B$ .

Q31: Construct a right angled triangle whose hypotenuse is 6cm long and one of the legs is 4cm long.