DR.K.K. ARYA MODEL SCHOOL

CLASS VII

SUBJECT – MATHEMATICS

HOLIDAYS HOMEWORK

Note: Do the assignment in a separate notebook

1. Write the following integers in ascending order: $-8, -4, 0, -11, 9, 4, 6, 13, -27, 19$
2. Write the following integers in descending order:
   $-16, -21, 22, -37, -20, 14, 0, 33, 26, -3, -38.$
3. Add : (a) $-18, 14$
   (b) $-26, -3$
   (c) $510, -313, -11$
4. Subtract the first integer from second :
   (a) $6, 18$
   (b) $-3, 6$
   (C) $-34, -56$
5. Find $(-22 - 8) \div 6$
6. $-17 \times -15 \times -12$
7. Simplify : $\frac{1}{12} \times -9 \times 4 \times -1$
8. $-\frac{2}{5} \times 25 \times 238$
9. Find the value of : $-45 — (-20) - 18$
10. Represent on number line: (a) -3×4 (b) $5 \times (-2)$
11. Find : $[-350 + (-100)] \div [-500 + 50]$
12. Find the value of : $(-2905) \times (-63) + (-2905) \times (33)$
13. Find the value of : $86 - [34 - (-20) - (-6)]$
14. Find the value of : $23145 \times 99 - (-23145)$
15. $(-48) \times 105$
16. Verify and also name the property used : $20 \times [5 \times (-16)] = (20 \times 5) \times (-16)$
17. Verify and also name the property used : $18 \times [100 + (-5)] = 18 \times 100 + 18 \times (-5)$
18. Find :$[400 \times (-20)] \div [(-250) \times (-8)]$
19. Find the mean of first five natural numbers.
20. Rahul started a game of monopoly with Rs 80. He had to pay Rs 15 as tax and he received Rs 20 as rent of one of his sites . Again , he won Rs 30 by way of lottery and was then fined Rs 55 for over speeding . How much money was left with him at the end of the game ?
21. Abhinav had Rs 20 with him . He spent Rs 8 on Monday , got Rs 5 as pocket money on Tuesday , gave Rs 7 loan to a friend on Wednesday , ate an ice cream worth Rs 10 on Thursday , received a reward of Rs 5 from his grandfather on Friday . How much does he have on Sunday , if his friend repays the loan on Saturday ?
22. The product of two numbers is -2100 . If one of the number is 30 . Find the other number .
23. Add : $3\frac{1}{3} + 2\frac{1}{2}$
24. $\frac{2}{3} - \frac{1}{4} + \frac{5}{12}$
25. $\frac{3}{7} + \frac{1}{21} - \frac{1}{14}$
26. Multiply : $\frac{2}{3} \times \frac{15}{24} \times 2\frac{4}{5}$
27. What is the reciprocal of $\frac{2}{9} \div \frac{1}{2}$
28. Find the value of : $\frac{5}{8} \times 1\frac{1}{2} \div \frac{15}{16}$
29. Find the value of : $1\frac{2}{5} \div 2\frac{1}{2}$
30. Simplify :$\frac{4}{5}\ of\ \left[\frac{4}{9} + \frac{2}{3}\right] \div 2\frac{2}{3}$

31. Write in ascending order: 23.7, 23.07, 0.237, 2.37, 237
32. Add: 23.89, 123.04, 5.004, 69.5
33. Simplify: 255.560 + 345.7 − 345.005
34. Multiply: (a) 234.5× 100 (b) 0.0345 × 1000 (c)2.075 × 3.13
35. Find: 0.325÷ 0.25
36. Convert in kilograms: (i)15 kg 75 g (ii)785 g
37. Convert 35 mm in cm , m and km.
38. Cost of 1 kg tea is Rs 156.75 . Find the cost of 45 kg of tea.
39. A vehicle covers a distance of 213.45 in 30 hours. Find the distance covered in 1 hour.
40. The cost of 1 litre milk is Rs $12\frac{3}{5}$. What is the cost of $3\frac{4}{7}$ litres of milk ?
41. Aditi had $\frac{3}{5}$ of a cake . She ate $\frac{2}{3}$ of it . What fraction of her cake did she ate ?
42. A man buys a box of fruits containing 286 fruits . Out of these $\frac{1}{2}$ of the fruits are apples and rest are pears . $\frac{4}{13}$ of the pears are rotten . He sells the good pears at Rs $4\frac{1}{11}$each . How much money does he receive on selling the good pears ?
43. A wire is $\frac{3}{10}\ m$ long . It is divided into 2 equal parts . What is the length of each part ?
44. A vehicle uses $2\frac{2}{5}$litres of petrol in 1 hour . How many litres of petrol will be required to run the vehicle for $3\frac{1}{2}$hours ?
45. A magazine has 80 pages of which $\frac{7}{16}$ are for advertising, $\frac{3}{20}$ have only photographs on them and the rest are of articles and stories. How many pages have articles and stories on them?
46. A company repair $2\frac{1}{5}\ km$ of road in a day . How many days will it take to repair a road $24\frac{3}{5}\ km$ long ?
47. A bottle contains 8 litres of orange juice. Ravi drink $\frac{3}{8}$ of the juice. Rahul drink the remaining juice .How much juice is drink by Ravi? What fraction of juice is drink by Rahul?
48. The length of a rectangular field is 7.85m and breadth is 12.5m . Find the perimeter and area of the rectangular field?
49. A container can hold 50.75 litres of water. How much water can be stored in 25 such containers?
50. Find the mode and median of the following data:
    12, 24, 26, 22, 24, 24, 26, 24, 20, 24, 28, 24, 24
51. Find the mean of first ten prime numbers.
52. What is the probability of getting a '2' on a die ?
53. There are 5 green balls , 6 red balls and 2 white balls in a bag. What is the probability of getting: (i)a green ball ? (ii)a red ball ? (iii)a white ball ?
54. The marks obtained by a group of students in a Maths test are 37, 34, 52, 43, 65, 50.
    Find the highest and the lowest marks obtained by the students.
    Find the range of the marks obtained .
    Find the mean marks obtained by the group.
55. The rainfall (in mm) in a city on 7 days of a certain week was recorded as follows:

Day	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Rainfall(in mm)	0.0	12.2	2.1	0.0	20.5	5.5	1.0

    (i)Find the range of the rainfall in the above data.
    (ii) Find the mean rainfall.
56. The enrolment in a school during six consecutive years was as follows:
    1555, 1670, 1750, 2013, 2540, 2820.
    Find the mean enrolment.

57. The marks obtained by five students of a class are given as:

Students	Aman	Rahul	Rohan	Sonu	Mohan
Marks Obtained	550	470	450	520	360

Represent the data on a bar graph.

58. The performance of a student in two successive tests is given.
Draw a double bar graph choosing appropriate scale and answer the following questions:

Subject	English	Hindi	Maths	Science	S.Sc.
Test 1	65	86	87	81	76
Test 2	70	79	95	85	77

Q1. In which subject the student improved the most ?
Q2.In Test 1 which subject has given the least marks ?
Q3.In Test 2 arrange the subjects in the increasing order of the marks obtained ?

59. Find the Mean and Mode:
34, 45, 67, 56, 45, 34, 45, 67, 45

60. The height of 5 children of a class are given as:

Children	sheen	Roshan	Ritik	Suraj	Mann
Height (in cm)	150	170	200	125	160

Represent the data on a bar graph.

Activity: Do activity no. 1,2 and 20 in practical notebook from your lab manual

Revise Ch- 1,2,3 with assignments

Project Work:

Roll No.- 1 to 8
Prepare a chart to show types of angles on the basis of their measure, explain with the help of figures.

Roll No. 9 to 16
Prepare a chart to show types of triangles on the basis of sides and angles with figures.

Roll No. 17 to 25
Compare the maximum and minimum temperature of your city from 20 June to 25 June using double bar graph.

Roll No. 26 to 35
Draw the conversion table of units of measurement on chart, show the conversion of different units of weight , length, volume.

Roll No. 36 to 43
(i)Draw or paste 10 pictures from your surrounding and draw line/ lines of symmetry of them on a chart.
(ii)Draw line/ lines of symmetry of English alphabets on chart paper.