

Maths Holiday Homework

Class -VI

Instructions:

Learn and write tables 2 to 20 (10 times)

All questions are compulsory

Work should be neat and clean

Q1. Find three square numbers which are greater than 100

Q2. With the help of 15 dots create a triangular pattern.

Q3. Find the next letters of the given pattern

A,D,G,J,M,P,____,____,_____

Q4. Express 121 as the sum of odd numbers.

Q5. Generate the different patterns of borders and tiles by using the letters

(i) A. (ii) S

Q6. Complete the patterns :

(I) 9,27,81,243,____,____,_____

(II) 892,871,850,829,____,____,____

Q7. Generate the three different tile patterns using square.

Q8. Without actual adding find the sum

$1+3+5+7+9+11+13+15+17$

Q9. How many 5- digit numbers are there in all ?

Q10. Form the greatest and smallest 4 - digit numbers using one of the digit twice

5,7,0

Q11. Find the difference between the place values of 7 in 37,52,79,610

Q12. Round of nearest to thousand

- (i) 2475. (ii) 24675

Q13. The following are the weight of 20 students of a class (in kg)

25,16, 17,15, 23, 14,22, 13, 22,17, 15 ,16, ,23, 25,16,15,23,16,14,13

- (a) Prepare a frequency distribution table for the given data
(b) How many students to have weight about 20 kg ?
(c) How many students to have weight below 18 kg ?

Q14. The marks obtained by 25 students in a class test of 100 marks is given below:

80,60,40,70,75,80,90,100,60,70,60,70,85, 65,70,70,85 60,65,80,60,70, 80,70,60

Make a frequency distribution of the about data and answer the following questions

- (a) What is the maximum marks obtained by any students ?
(b) Find the number of students who score less than 75 marks ?
(c) Find the number of students who score more than 80 marks ?

Q15. Give an example of palindromic date that looks the same from left to right and from right to left .

Q16. Apply the collatz conjecture to the number 10.

Q17. The table given below shows the number of students playing four different games.

Games	Football	Hockey	Cricket	Badminton
No. Of students	200	140	100	50

present this information by a pictograph

Q18. The number of girls of a school born in different months of the year as follows :

January	February	March	April	May	June
220	140	160	100	120	180

Represent the data by a pictograph

Q19. The number of cycles produced by a factory in a week from Monday to Friday is given below

Mon	Tue	Wed	Thu	Fri
800	900	1200	900	1400

draw a bar graph to represent the given information

Q20. What smallest number should be added to 123 to make it a square number ?

Mental Maths

Q21. Without repeating any digit, write the smallest and largest possible 4-digit numbers having 7 in tens place

Q22. Use 8, 5, 9, 4 to find the number with conditions:

Biggest digit in hundreds place

5 in ones place

4 in tens place

8 in thousand place

Q23. Find the number, if the number is greater than the number of days in November, the number is an even number, the number is less than 72, the number is multiple of 7 and the sum of digits is equal to the number of days in a week.

Q24. By how much is 8932 cm greater than 9687 mm? (Answer in cm)

Q25. What is the minimum and maximum number of digits in the sum of any two four digit numbers ?

Q26. Write all odd numbers below 10. Multiply any two. Is the product odd?

Q27. What is the minimum and maximum number of digits in the sum of any two 4-digit numbers?

Q28. I am a three digit number . I am less than 500 .I am greater than 200 .All my digits are odd.If you take each of my three digits and add them together ,they equal 5 . what number am I ?

Q29. How many 3-digit whole numbers are there?

Puzzles

Q30. If $40+10=30$, $18+8=10$ then $60+60=?$

Q31. Find a number such that if you multiply it by 3, subtract 5 and then divide by 2 you get 10. what is the number.

Q32. I am a number between 1 and 100 . I am divisible by both 6 and 8 . what is the smallest such number.

Q33. A number is doubled and then 12 is subtracted, the result is 28. find the number.

Q34. Find a number such that when you add 15 to it and then divide by 3, the result is 10 . what is the number.

Q35. If CAT= 24, DOG= 26. Then what is BAT =?

Activity

Q36. Write any five mobile numbers of your family members. Form the greatest and smallest number using the digits

Q37. Prepare a chart of numbers from 1 to 100 and colour prime and composite numbers

Q38. Collect data of 5 students favourite subjects and write your observation.

Q39. Collect the age of your family members and identify the highest and lowest age.

Q40. Art Integrated Project:

Festivals of Manipur