



# ÉCOLE GLOBALE

## INTERNATIONAL GIRLS' SCHOOL

### Dehradun

## HOLIDAY HOMEWORK

### CLASS VI

## SUMMER BREAK 2018-19

### SUBJECT : MATHEMATICS

#### Activity

- 1) Collect 10 wrappers of any edible items and paste them on an A4 Pastel sheet showing the price tag.

#### **Instructions:**

- Note down the prices of each item separately.
- Create a word problem using this data collected and note it down.
- Solve it by giving proper statements and showing the working.
- Write the answer statement by rounding off to nearest tens, hundreds and thousands.

- 2) Make 5 different polygons with the help of matchsticks. Paste them in the practical file and name them.

#### **Instructions:**

- Join diagonals of each polygon.
- Count the number of line segments of each polygon and name them.
- Count the number of angles of each polygon and name them.
- Count the number of triangles of each polygon and name them.

- 3) An example of a magic square is given. Likewise, demonstrate a magic square (4 X 4) with the help of number strips.

#### **Instructions:**

- Take any set of 16 consecutive natural numbers. For example let us take 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 as shown below.
- In the (4 X4) square, first 8 cells are filled with the first 8 chosen numbers like 5,6,7,8,9,10,11,12 as shown below.
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5	12		
6	11		
7	10		
8	9		

- The remaining 8 cells are filled by the remaining numbers as shown below.

5	12	16	17
6	11	15	18
7	10	14	19
8	9	13	20

- Keep Row 1 and Row 4 as it is. Change the numbers in the cells in Row 2 and Row 3 as shown below.

5	12	16	17
18	15	11	6
19	14	10	7
8	9	13	20

- Now this number square has magic properties.
- Complete the observation table.

### SUM OF NUMBERS

ROW 1	ROW 2	ROW 3	ROW 4	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	DIAGONAL 1	DIAGONAL 2

- Write the conclusion.

### Assignment

Q1. Population of Agra and Aligarh districts in the year 2001 was 36,20,436 and 29,92,286, respectively. What was the total population of the two districts in that year?

Q2. Estimate the product  $5981 \times 4428$  by rounding off each number to the nearest (i) tens (ii) hundreds

Q3. Write the smallest 4 digit number with different digits.

Q4. Find the product  $8739 \times 102$  using distributive property.

Q5. Find the product of the place values of two 2's in 428721.

Q6. Write the largest 5-digit number, using any one digit twice, from digits 5, 9, 2 and 6.

Q7. Keeping the place of 6 in the number 6350947 same, write the smallest number obtained by rearranging other digits.

Q8. Write the largest 5-digit number having three different digits.

Q9. Find the product of successor and predecessor of 999.

Q10. Fill in the blanks:

- 1) 10 million = \_\_\_\_\_ crore.
- 2) 10 lakh = \_\_\_\_\_ million.
- 3) 100 thousands = \_\_\_\_\_ lakh.
- 4) The population of Pune was 2,538,473 in 2001. Rounded off to nearest thousands, the population was \_\_\_\_\_.
- 5) The smallest whole number is \_\_\_\_\_.
- 6) Successor of 106159 is \_\_\_\_\_.
- 7) Predecessor of 100000 is \_\_\_\_\_.
- 8) 400 is the predecessor of \_\_\_\_\_.
- 9) \_\_\_\_\_ is the successor of the largest 3 digit number.
- 10)  $2395 \times \underline{\hspace{1cm}} = 6195 \times 2395$
- 11)  $1001 \times 2002 = 1001 \times (1001 + \underline{\hspace{1cm}})$
- 12)  $125 + (68 + 17) = (125 + \underline{\hspace{1cm}}) + 17$
- 13)  $19 \times 12 + 19 = 19 \times (12 + \underline{\hspace{1cm}})$

Q11. The diameter of Jupiter is 142800000metres. Insert commas suitably and write the diameter according to International System of Numeration.

Q12. Radius of the Earth is 6400km and that of Mars is 4300000m. Whose radius is bigger and by how much?

Q13. In a city, polio drops were given to 2,12,583 children on Sunday in March 2008 and to 2,16,813 children in the next month. Find the difference of the number of children getting polio drops in the two months.

Q14. A person had Rs 1000000 with him. He purchased a colour T.V. for Rs 16580, a motor cycle for Rs 45890 and a flat for Rs 870000. How much money was left with him?

Q15. Out of 180000 tablets of Vitamin A, 18734 are distributed among the students in a district. Find the number of the remaining vitamin tablets.

Q16. Chinmay had Rs 610000. He gave Rs 87500 to Jyoti, Rs 126380 to Javed and Rs 350000 to John. How much money was left with him?

Q17. Find the difference between the largest number of seven digits and the smallest number of eight digits.

Q18. Find the sum of the greatest and the least six digit numbers formed by the digits 2, 0, 4, 7, 6, 5 using each digit only once.

Q19. Determine the sum of the four numbers as given below:

(a) Successor of 32

(b) Predecessor of 49

(c) Predecessor of the predecessor of 56

(d) Successor of the successor of 67

Q20. A loading tempo can carry 482 boxes of biscuits weighing 15kg each, whereas a van can carry 518 boxes each of the same weight. Find the total weight that can be carried by both the vehicles.

Q21. In the marriage of her daughter, Leela spent Rs 216766 on food and decoration, Rs 122322 on jewels, Rs 88234 on furniture and Rs 26780 on kitchen items. Find the total amount spent by her on the above items.

Q22. The population of a town was 78787 in the year 1991 and 95833 in the year 2001. Estimate the increase in population by rounding off each population to nearest hundreds.

Q23. How many grams should be added to 2kg 300g to make it 5kg 68g?

Q24. A box contains 50 packets of biscuits each weighing 120g. How many such boxes can be loaded in a van which cannot carry beyond 900kg?

Q25. How many lakhs make five billions?

Q26. How many millions make 3 crores?

Q27. Estimate each of the following by rounding off each number to nearest hundreds:

(a)  $874 + 478$

(b)  $793 + 397$

(c)  $11244 + 3507$

(d)  $17677 + 13589$

Q28. Estimate each of the following by rounding off each number to nearest tens:

(a)  $11963 - 9369$

(b)  $76877 - 7783$

(c)  $10732 - 4354$

(d)  $78203 - 16407$

Q29. Estimate each of the following products by rounding off each number to nearest tens:

(a)  $87 \times 32$

(b)  $311 \times 113$

(c)  $3239 \times 28$

(d)  $1385 \times 789$

Q30. The population of a town was 78787 in the year 1991 and 95833 in the year 2001. Estimate the increase in population by rounding off each population to nearest hundreds.

Q31. Write the numbers as Roman numerals:

1) 1

2) 349

3) 265

4) 84

5) 61

6) 283

7) 175

8) 359

9) 212

10) 248

Q32. Write these Roman numerals as a Hindu Arabic numeral.

- 1) CCCXLV
- 2) DXCIX
- 3) DCCCXV
- 4) DXLIX
- 5) MM
- 6) MMXV
- 7) MDCCCL
- 8) LXIX
- 9) DCCCLXXXVIII
- 10) CCI