 AP EE JAY SCHOOL  
HOLIDAY HOME WORK 2015-16  
CLASS VI  

MATHEMATICS  

(NOTE: Do the Maths holiday homework in a separate thin notebook.)

Q1) A mobile number consists of ten digits. The first four digits of the number are 9,9,8 and 7. The last three digits are 3, 5 and 5. The remaining digits are distinct and make the mobile number, the greatest possible number. What are these digits?

Q2) A mobile number consists of 10 digits. First four digits are 9,9,7 and 9. Make the smallest mobile number by using only one digit twice from 8,3,5,6 and 0.

Q3) In a five digit number, digit at ten’s place is 4, digit at unit’s place is one fourth of ten’s place digit, digit at hundred’s place is 0, digit at thousand’s place is 5 times of the digit at unit’s place and ten thousand’s place digit is double the digit at ten’s place. Write the number.

Q4) Using divisibility tests, determine which of the following numbers are divisible by 4?
   A. 4096
   B. 21084
   C. 31795012

Q5) Using divisibility test, determine which of the following numbers are divisible by 9?
   a. 672
   b. 3245
   c. 5652

Q6) Find the difference of the place values of two 8’s in the number 578493087.

Q7) Write all 3-digit numbers using the digits 2,3,5 taking each digit only once.

Q8) In a four digit number, the digit in thousand’s place is 4 and the digit in the one’s place is twice that in the thousand’s place. The number has no hundred’s. The ten’s place digit is the difference between the digits in the thousand’s place and the hundred’s place. Find the number.

Q9) Determine the difference between the place value and the face value of 5 in 78654321.

Q10) Write all the possible 3-digit numbers using the digits 6,0, 4, when
   a. Repetition of digits is allowed
   b. Repetition of digits is not allowed

Q11) Write the smallest 7 digit number having four different digits.

Q12) Kirti bookstores sold books worth Rs.2,85,891 in the first week of June. The bookstore sold books worth Rs.4,00,768 in the second week of the month. How much was the sale for the two weeks together? In which week was the sale greater? By how much?

Q13) Write two different statements for the expression
   a. (7+8) x 15
   b. 69 ÷ (81 -39)

Q14) Write each of the following Roman Numerals in Hindu-Arabic numeral:
   • CCXXIV
   • CCCLXV
   • DCCLXVI

Q15) In two-digit numbers, how many times does the digit 5 occur in
   A. The ten’s place
   B. The unit’s place

Q16. What is the HCF of 4X27X3125, 8X9X25X7 and 16X81X5X11X49?
Q17. I am the square of the number that is 68 less than the product of the LCM of 2 and 3 and the LCM of 3 and 4. What number am I?
Q18. How many natural numbers are there between 89 and 210?
Q19. Solve the following using distributive property:
   a. 207 \times 305
   b. 56 \times 39 + 56
Q20. List all prime numbers between 50 and 100.
Q21. Check the divisibility of the given numbers by 8 and 9:
   a. 2104
   b. 6560
   c. 56187
Q22. Fill in the blank to make the number divisible by 11:
   a. 1_7535
   b. 2913_5
Q23. Simplify the following:
   a. 124 - (12-2) \times 9
   b. (13 + 7) \times (9 - 4) - 8
Q24. Check whether the following numbers are co-prime or not:
   a. 25, 16
   b. 18, 29
   c. 21, 22
   Can we say that 2 consecutive natural numbers are always co-prime?
Q25. Find the largest number which is a factor of each of the numbers 504, 792, and 1080.
Q26. Add the prices of two rings and you get Rs40. Subtract the two prices and you get Rs10. What are the prices?
Q27. There are just 4 natural numbers less than 100 with exactly 3 factors. One of them is 25. What are the other 3 numbers? What do you notice about these numbers?
Q28. A student multiplied 7236 by 65 instead of 56. How much was his answer greater than the correct answer?
Q29. A vessel has 4 litres 650 millilitre of curd. In how many glasses each of 25 millilitre capacity can it be distributed?
Q30. A sparrow has 7 more neck bones than a giraffe. Together they have 21 neck bones. How many neck bones does a sparrow have?

**Project Number**

Choose any of the following activities:
1. Choose any Indian Mathematician. Make a photo frame of his picture along with few lines on his contributions. (Dimensions of the photo frame should be A4 size)
2. Make 6 coasters or 2 table mats having symmetrical patterns on them. Laminate them.
3. Make a board game which involves one or more mathematical operations.

**SOCIAL SCIENCE**

On an A3 size coloured sheet, collect and paste information and pictures on the topic – ‘Motions of the Earth’.
The assignment should cover the following subheads -
- Definition of Rotation and Revolution
- Detailed description of the various aspects of rotation and revolution.
- Summer Solstice and Winter Solstice.
- Diagrams

Date of submission - July 15, 2015.
The assignment will be evaluated and graded on accuracy of information, creativity, innovativeness, presentation and timely submission.
GENERAL SCIENCE

As part of International School Award (ISA) activity, we are undertaking a project in science –“Munching Mania”.

The project aims at creating awareness about unhealthy eating habits among children around the globe in various age groups and harmful effects/ diseases caused by it. It aims to help the children to develop into healthy adults.

Students will survey a few group of individuals of different age groups and make a pictorial representation cum a brief account of different lifestyles and nutritional deficiency diseases and their occurrence in different countries (USA, UK, JAPAN, CHINA, INDIA and AUSTRALIA). Present your compiled work neatly in a scrap book.

Prepare a comparative study of the diseases. You must present your collected data/information in the form of bar graph, pie chart, pictorial representation etc. Also give suggestions to reduce the occurrence of these diseases. Also prepare a power point presentation regarding the same.

Each student will research on the given diseases according to the assigned roll numbers.

You have to present your work in the form of a comparative account of the given countries.

<table>
<thead>
<tr>
<th>ROLL NO.</th>
<th>LIFESTYLE DISEASE</th>
<th>NUTRITIONAL DEFICIENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-10</td>
<td>DIABETES</td>
<td>NIGHT BLINDNESS</td>
</tr>
<tr>
<td>11-20</td>
<td>HYPERTENSION</td>
<td>OSTEOPOROSIS</td>
</tr>
<tr>
<td>21-30</td>
<td>OBESITY</td>
<td>VITAMIN D AND CALCIUM DEFICIENCY</td>
</tr>
<tr>
<td>31-40</td>
<td>ANOREXIA</td>
<td>ANAEMIA</td>
</tr>
<tr>
<td>41 Onwards</td>
<td>DEPRESSION</td>
<td>SCURVY</td>
</tr>
</tbody>
</table>
FRENCH

• Prepare a scrap book and paste pictures based on the culture of France.
• (its monuments, museums, landmarks, cheese, wines, republic day, landmarks, flag, food, fashion, etc)
• Solve chapter 0, 1, and 2 in CAHIER. (white book)
• Revise the vocabulary.

GERMAN

1. LEARN THE VOCABULARY FOR THE DESCRIPTION OF YOUR ROOM, SCHOOL, FRIEND, FAMILY MEMBERS.

2. MAKE A CREATIVE A4 SIZE COLOURED SHEET ON
   Roll no 1-10  Colors (Farben)
   Roll no 11-20 Animals (Tiere)
   Roll no 21-30 Fruits  (Obst)
   Roll no 31-40 Vegetables(Gemuse)
   Roll no 41-54 Things we wear (Kleider)

YOGA

• Practice Suryanamaskar daily, early in the morning.(3 rounds).
• Practice Vajarasana daily, (after meals).
• Make a collage on an A4 size sheet with your photographs performing different asanas (any 5 asanas).

ENGLISH

❖ Take a family photograph (taken on any special occasion) and write a description of at least three members of the family on an A4 size sheet.
❖ Use a hand-made sheet to make a beautiful card (5” x 7”) for your parents/ grandparents on their wedding anniversary / birthday. Write a meaningful message/ poem inside the card.
❖ You have ‘An Island of Trees’ by Ruskin Bond as a supplementary reader. Read the first ten stories; pick out three difficult words from each story and find their meaning from the dictionary. Make a list of these words with their meaning on an A4 size sheet.
   All work to be submitted in one folder.
PHYSICAL EDUCATION

Prepare a chart on A3 size sheet on any one sports.

Roll No. 1 - 10 – Badminton
Roll no 11 – 20 - Football
Roll no 21 – 20 – Table Tennis
Roll no 31 – 40 – Swimming
Roll no 41 – 50 – Cricket

- History of games and sports
- Latest general rules of the game/sport (in short)
- Specification of the play field and related sports equipments
- Proper sports gear and their importance
- Add proper illustrations
- Use coloured sketch pens and make borders

COMPUTER SCIENCE

<table>
<thead>
<tr>
<th>Roll nos</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 15</td>
<td>Latest Computer wearable foldable tablets.( in pamphlet form of any shape)</td>
</tr>
<tr>
<td>16 to 30</td>
<td>Search the internet on the topic “Cloud computing” (in pamphlet form of any shape)</td>
</tr>
<tr>
<td>31 to 45</td>
<td>Chart on topic:- Quick Basic Programs with flowchart</td>
</tr>
<tr>
<td>Above 45</td>
<td>Write about different educational websites. ( in pamphlet form of any shape)</td>
</tr>
</tbody>
</table>

GENERAL KNOWLEDGE

- Students will make a thin notebook and write/paste one or two news items in it daily.
- Prepare for a Class Quiz to be held after the summer vacations. The syllabus for the quiz will include the following:
  - Unit 1 and 2 of the book.
  - Current events.
  - General awareness.

MUSIC (VOCAL AND INSTRUMENTAL)

- Prepare a scrap book
- Topic to be covered

1. History of German Music
2. Instruments used in German Music
3. Show their costumes, instruments and culture during musical performances through colourful pictures.