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SUMMER VACATIONS ARE HERE!

Dear Children,

You must be excited at being promoted a class higher, after the sweat and toil of the exams and the prospect of the long awaited summer break!

Summer break! It's the time to enjoy and learn while you have fun! To add to your fun, we have put together an exciting assignment that will ensure that your creative self is motivated and happily occupied.



This summer, our theme is Innovation. Keep your creative juices flowing. We also want you to do your bit for our planet. The topic for Class 4 is „Pollution and Environment“ to focus on saving our planet.

While working on this holiday assignment do keep a few points in mind:

1. We do not want anything fancy or outsourced. We would love to see „ your“ work and appreciate your efforts. Of course! You can take the assistance of an adult, but it's your original work that will fetch you kudos from your teachers.
2. Try to use waste material to do your assignment as we want to see“ best out of waste“.
3. Use the unused side of used sheets or use leftover pages from your old note books.
4. Make a folder/ file using old newspapers/ shopping bags / waste paper.
5. Decorate your folder with pictures/colour / decorate/ paint to beautify your project. Make it attractive, but use only waste materials.
6. Divide your folder in sections, subject-wise.
7. Neat handwriting is an asset so practice writing a page in neat handwriting every day.

ENGLISH

Task: To investigate and create an innovative solution (think out of the box) that would help in reducing pollution and will work towards making Earth a greener planet.



You could do any **two** of the following

1. Look around your colony, on the roads and your city. Observe the pollution and the cleanliness in various forms. Now ponder over your observations and write your thoughts in one sentence using the following prompts -
 - a. I learnt...
 - b. I felt...
 - c. I wondered...
 - d. I tried...



2. Visit a park near your house and share 5 innovative ideas you would like to implement to upgrade its cleanliness, ambience and make it pollution free.
3. Create a slogan to raise awareness about pollution around your neighbourhood.
4. Imagine if you were to become the “Cleanliness Fairy” or “Cleanliness Angel” for a day, how would you use your magical powers to make our earth cleaner and greener (Prepare a few lines on this topic for oral / communication skill test in the class)

Fill in the blanks in the following sentences with Feminine forms of the words given at the end :

(lass, niece, mare, baroness, spinster, heroine, priestess, heiress, hostess)

1. She is the of the story. (hero)
2. The young did not know what to say. (lad)
3. She remained a all her life. (bachelor)
4. He bought a beautiful chestnut(horse)
5. The wore a diamond necklace. (baron)

Fill in the blanks with the correct forms of the Plural of the words given at the end :

1. She is the of the story. (synopsis)
2. I saw many on the underside of the leaf. (larva)
3. The building was six high. (storey)
4. My two have come to see me.(son-in-law)
5. He is good at telling funny (story)

The sentences given below are taken from a story, but they are jumbled. That means they are not arranged in their proper order. Rearrange them in their logical sequence.

1. The young man sold his share of the property and left for another country.
2. The father tried to discourage his son, but he wouldn't listen to his father whom he regarded as old and ignorant.
3. Years went by. The younger son began to get restless because he was unhappy with his lot.
4. He led a luxurious life and spent a lot of money on gambling.
5. They were living together happily.
6. Soon all his money was gone and he became a poor.
7. Once there lived a rich farmer.
8. He went to his father and asked for his share of the property.

9. So the father gave him a third of his property.

10. He had two sons.

Complete the story by writing in the empty boxes below. Also, give a suitable title to the story.

Title: _____

(i) Dotty asks permission to borrow her mother's pearl necklace for the school dance.

(ii) Dotty's mom says, "It's a family heirloom that my mom gave me when I graduated from high school. You can wear it when you're a little older, but not yet."

(iii) Dotty sneaks into her mother's room and takes the necklace out of her mother's jewellery box.

(iv) _____

(I) Note down the timing of your two favourite shows on television and write few lines about what did you watch. Paste a picture of the two shows.

(J) Search for a new word everyday from your english textbook (Raindrops) and write its meaning. Also, form a sentence with that word.



Young minds are the sharpest. They learn fast and act faster.

„The Ignite Competition“ held by the National Innovation Foundation in India is a platform that is giving young minds a place to experiment and innovate and come up with something extraordinary. You can innovate, too.

Here are some activities to fruitfully occupy you during summer vacations. Remember to start working at the earliest as these activities need at least three weeks to fructify.

I.

1. Find out any two interesting and impressive innovations by students across India that are based on prevention of air, water, noise or soil pollution.
2. Write 5 lines on each. Include any suggestions you have as well?

Note. You can search on the following websites for more information

- www.cippgh.org
- <http://www.thebetterindia.com/11596/ignite-innovations/>



II.

Perform '**The Big Dig Experiment**' to study how different materials break-up when buried in the earth.

Materials required:-shovel, backyard or pots full of soil to bury items, icecream sticks, coloured marker pens, different products and materials to test (can pick any one category below).

- a) Plates and cups (paper, plastic, wax coated paper cups)
- b) Paper (notebook paper, gift wrap, magazine, cardboard)
- c) Bags (paper bags, plastic bags, grocery bags, sandwich baggies)

Experiment procedure.

1. First decide, for example I am going to use different types of disposable cups.
2. Label one icecream stick for each item using permanent marker.
3. Dig a small trench large enough to fit all your items in one row.
4. Bury each item placing the matching labelled popsicle stick in the dirt to mark each item.
5. Leave the item buried for 3 weeks.
6. When time is up (you will want to keep track of time buried using a calendar), go out with your shovel to dig up your items one at a time.



Now answer the questions based on your observations:

1. Which material degraded the most?
2. Which material will break down best in a landfill?
3. Which material do you think we should buy?

4. Find out names of 3 Eco -friendly resorts in India which are working towards cleaner, greener environment and are encouraging the use of bio degradable products.

MATHS

Numbers show that human beings are more intelligent than any other species. But sadly our species also has a major role in polluting the environment and our earth. Let's make our environment safe and clean by using our intelligence to decode this interesting number game.



1. MATHS CODE CRACKER.



Use the codes given below to work out and make **two slogans each on CLEANLINESS and POLLUTION.** Then, with the basic operation of addition, add individual numbers and form a **NEW NUMBER**, then write its



NUMBER NAME, PLACE VALUE, FACE VALUE, EXPANDED FORM.

THE DE-CODER

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

An example is done for reference: -

"G O G REEN G ET CLEAN"

So, we do,

*(G + O) (G + R+ E + E + N) (G + E + T) (C + L + E + A + N)

*(7+ 15) (7+ 18+ 5 + 5 + 14) (7 + 5 + 20) (3 + 12 + 5 + 1 + 14)

* (22) (49) (32) (37)

* (2 +2) (4+ 9) (3+2) (3+7)

* (4) (13) (5) (10)

*(4) (1+3) (5) (1+0)

* 4 4 5 1 - which is the number. Then do as directed.

2. MATHS POLLUTION CHECK

It's time to get serious about reducing our greenhouse gas emissions. So, this summer let's do a pollution check survey as a part of our Math holiday homework.

- Conduct this survey individually.
- Collect information about 5 cars in your locality which have been certified as "POLLUTION CHECK UNDER CONTROL".
- Write the name of the owners of the cars, name of the car, fuel used, vehicle number.
- Then arrange the vehicle numbers in ascending order and write their number names.



3. Write the table of 12 in Roman numeral

Make question number 1, 2, 9, 11, 12 and 14 in A4 size sheets. Put it inside a folder and make it presentable.

(1) Find the sum:

(i) $345165 + 123627 + 290845$

(ii) $357652 + 400854 + 765433$

(iii) $243081 + 154374 + 369897$

(iv) 549556 and 8407100 .

(2) Priyanka deposited Rs. 1387160 in her bank account. After a month, she deposited Rs. 909961 in her account. How much money is there in the account?

(3) Choose correct answer(s) from given choice.

(i) The correct operator for number statement 61309448 _____ seventeen million five hundred ninety-eight thousand seven hundred forty-nine is:

a. =

b. <

c. >

(ii) A publisher published 55511 books in the year 1992, 54983 books in 1993, 79793 books in 1994 and 96405 books in 1995. How many books were published in total over these four years?

a. 285275

b. 286692

c. 287052

d. 285994

(iii) The sum of the largest 5-digit number and the greatest 6-digit number is

a. 1099998

b. 783032

c. 1100098

d. 1100008

(iv) The number 37622929 in expanded form is represented as

a. 37622929

b. thirty-seven million six hundred twenty-two thousand nine hundred twenty-nine

c. $30000000 + 7000000 + 600000 + 20000 + 2000 + 900 + 20 + 9$

(4). Fill in the blanks with <, > or = sign.

(i) 86274311 _____ 86274302

(ii) 6681237 _____ 66812012

(5) The difference between ninety-seven lakhs ninety-one thousand five hundred sixty-one and eight lakhs eighty thousand two hundred seventy is _____

(6) India has a total land area of 9629091square kilometres. If the value of this area is rounded off to the nearest one thousand, then the result would be _____

(7) The difference between the smallest 6 digit number and the largest 4 digit number is _____

(8) Find the successor of each of the following numbers:

a) $4343434 =$

b) $2411193 =$

c) $89499 =$

d) $3287036 =$

e) $1699999 =$

f) $4702889 =$

(9). Write the following in figures in the International Place value chart:

(i) five thousand, two hundred and twenty

(ii) Twenty-two thousand, five hundred and eleven

(iii) Three hundred and twenty-five thousand, four hundred and two

(iv) Four million, one hundred and thirty-two thousand, three hundred and sixteen

(v) Twenty-five million, two hundred and twelve thousand, four hundred and twenty-three

(vi) Three hundred and fifteen million, one hundred and twenty-one thousand, eight hundred and ten

Note:

In the international numbering system, we write millions after thousands while in the Indian system, we write lakhs after thousands

(10). Fill in the blank spaces:

(i) $V + IX = \dots\dots\dots$

(ii) $IV + XX = \dots\dots\dots$

(iii) $X + IV = \dots\dots\dots$

(iv) $XIX + VI = \dots\dots\dots$

(v) $XIII + IX = \dots\dots\dots$

(vi) $XXI + VIII = \dots\dots\dots$

(vii) $XL - XXXIV = \dots\dots\dots$

(viii) $XLVIII - XIX = \dots\dots\dots$

(ix) $L - XL = \dots\dots\dots$

(x) $XLI - XXX = \dots\dots\dots$

(xi) $XX - VII = \dots\dots\dots$

(xii) $XLV - XVII = \dots\dots\dots$

(xiii) $XX + IX = \dots\dots\dots$

(xiv) $XXXI + VII = \dots\dots\dots$

- (xv) $XXVI + XV = \dots\dots\dots$
(xvi) $XL - XXIII = \dots\dots\dots$
(xvii) $XL - XXIX = \dots\dots\dots$
(xviii) $XXIX - XV = \dots\dots\dots$

(11). Arrange the following in ascending order:

- (i) V, IV, IX, VII, XIII, XXV
(ii) XI, VII, IX, XIV, XXI, XIX
(iii) XLII, XXIX, XXV, XLIX, XLVI, XVIII
(iv) XLVI, L, XXXI, XVIII, XXIV, XXXIX
(v) XVII, IX, XIX, XXX, XL, XXXIX
(vi) VI, III, IX, XVI, VIII, XXX

(12). Arrange the following in descending order:

- (i) XIX, XXII, XIV, XXXII, XLVIII, 5
(ii) XX, XXIV, XV, XLIX, XLI, XI
(iii) XVII, XXXI, XXV, XLII, XV, IX
(iv) XXVII, XVIII, VIII, XXXIX, XL, IV
(v) XXI, XIII, XVII, XXV, IX, V
(vi) XXXIV, XL, XVI, XXV, XLV, XII

(13). Fill in the blank spaces:

- (i) XX comes after
- (ii) XXV comes after
- (iii) IX comes after
- (iv) XLVII comes after
- (v) XXXVII comes after
- (vi) XXX comes after
- (vii) XLVI comes after
- (viii) XXIX comes after
- (ix) XXV comes after
- (x) XLII comes after

(14). Solve the following:

1. Mike is XII years old. His brother Max is XIX years old. Who is elder and by how many years?
2. Jane has XXV apples. She divides them among V children equally. How many apples will each child get?
3. Jack had XLV toys. He gave XX toys to David and XXII toys to Shelly. How many toys were left with him?
4. There are XX girls and XIV boys in the school. Find the total number of students in the school.

(15) Mental math till worksheet number 20.

HINDI

- १) हमारे प्रधानमंत्री श्री नरेंद्र मोदी जी द्वारा चलाए गए पाँच कार्यक्रमों की सूची बनाएँ
- २) आप ऐसा कौन सा कार्यक्रम चलाना चाहेंगे और कैसे चित्रों की सहायता से समझाएँ
- ३) कई जीव - जन्तु और पक्षी भी हमारे पर्यावरण को स्वच्छ रखने में हमारी मदद करते हैं। इनके चित्रों तथा थोड़ी सी जानकारी के साथ एक रंगीन 4 SIZE पोस्टर तैयार करें ।



E.K.

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COMPUTER

- *Make a collage on 'Input and Output' devices and label them. Collect the pictures from magazines, newspapers or internet.*