

ACTIVE ENGAGEMENT OF STUDENTS IN DIFFICULT TIMES

DEAR PARENTS,

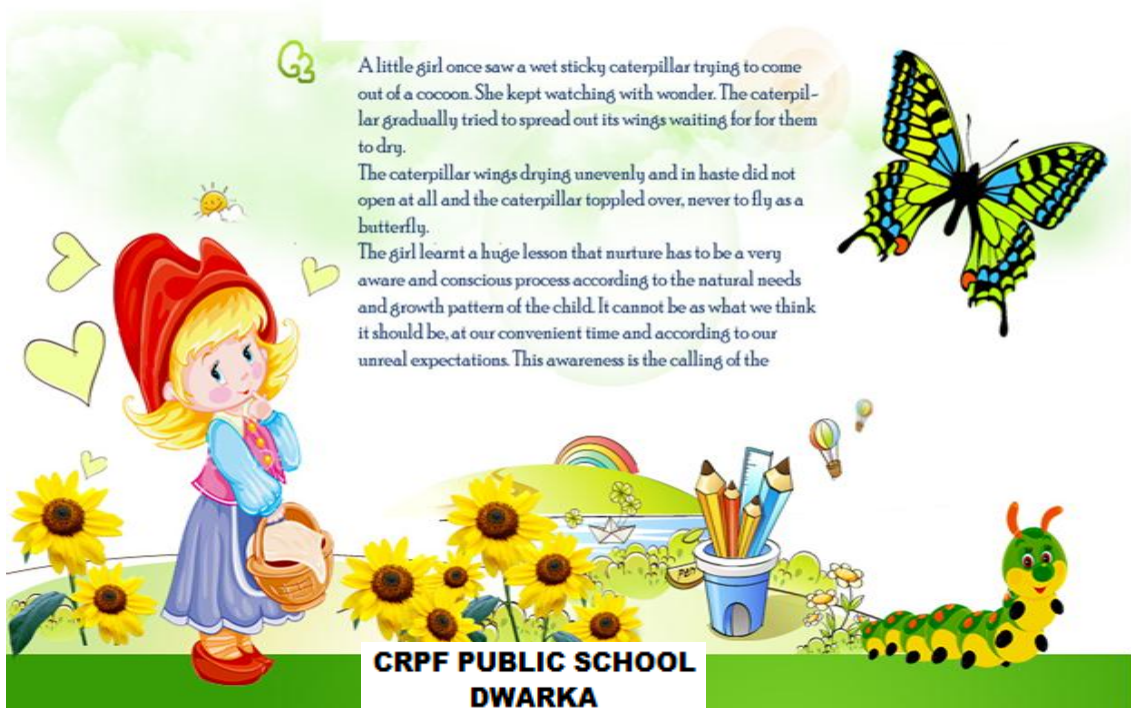
In the difficult times of the COVID-19 outbreak which demands immediate protection and hygiene, the school remains closed for the students as a precautionary measure. To keep the children actively engaged, we have designed assignments/ worksheets enabling them to utilize their time effectively and judiciously. We request you to kindly ensure that the students complete the assignments for their fruitful engagement.

We also request you to kindly abide by the guidelines issued by the government on COVID-19 to stay safe and healthy.

CRPF PUBLIC SCHOOL, DWARKA

Assignments - Fruitful Engagement, 2020-21

CLASS 9



Active Engagement of Students in Difficult Times

Dear Parents,

In the difficult times of COVID-19 outbreak which demands immediate protection and hygiene, the school remains closed for the students as a precautionary measure. To keep the children actively engaged, we have designed assignments enabling them to utilize their time effectively and judiciously. We request you to kindly ensure that the students complete the assignments for their fruitful engagement.

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ENGLISH

Q1 Write one article for the School's Annual magazine (Any one)

- Article Writing(Scientific, factual, descriptive and literary)
- Story telling
- Self composed poem

Q2. **Design a Table Calendar with Poets of Romantic Era of England.** Paste one picture on each sheet and write two few details about him/her. The details should include, date and place of birth, date of death (if applicable), 2-3 major works.

The poets are twelve in number, one for each month: • From England: William Blake, Samuel Taylor Coleridge, Percy Bysshe Shelley, Elizabeth Barrett Browning, William Wordsworth, John Keats, Christina Rossetti, Mary Robinson, Hannah More. • From Ireland: Thomas Moore. • From Scotland: Robert Burns, Walter Scott.

Q3.Prepare a project on eminent instrumentalists of India who made a difference in the nations prestige at the global stage of art and culture. Your project must include:

- 1.Five personalities-their life, education, struggle and contribution
- 2.Detailed description about the instruments with illustrations.

Supplement your project with pictures, collages, sketches, cover page/ book jacket. Make it visually appealing and attractive. The text should be hand written.

Q4. Read the lines given below and continue the story. Give it a logical conclusion in about 150-200 words.

The old man looked tired and helpless. He seemed to be grumpy and didn't want anyone's help.....



HINDI

नोट :- कार्य ए-4 साइज शीट पर कीजिए एवं फाइल में संकलित कीजिए।
कार्य साफ और सुंदर लेख में होना चाहिए।

1. कौरीना वाइरस के बारे में सूचना एकत्रित करके एक प्रोजेक्ट तैयार करें।
2. अपनी हिंदी पाठ्य-पुस्तक 'स्पर्श' को पढ़कर निम्नलिखित कार्य कीजिए -
क) अनुस्वार , अनुनासिक , अर्धचंद्राकार व चुक्ता युक्त 15-15 शब्द छाँटकर लिखिए।
ख) 15 शब्द छाँटकर उनका वर्ण-विच्छेद कीजिए।
3. अपने पसंदीदा पाँच कवियों की कोई पाँच कविता लिखें।
4. भारत में हिंदी की स्थिति पर एक रिपोर्ट तैयार करें।
5. हिंदी की किसी भी पुस्तक का आवरण पृष्ठ बनाए।

SCIENCE

- ROLL NO. 1-5 MODEL MAKING – Centrifugating Machine
- ROLL NO. 6-10 RESEARCH PROJECT – To find the content of cold drinks available in the market. Categorise the contents into – elements or compounds.
- ROLL NO. 11-15 MODEL MAKING – Parachute : Does size matter?
- ROLL NO. 16-20 MODEL MAKING – How does friction on different surfaces affects the speed?
- ROLL NO. 21-25 RESEARCH PROJECT – The length, amplitude or weight of a pendulum affected its period
- ROLL NO. 26-30 RESEARCH PROJECT- To study the effect of fertilisers, manure and polythene on the growth of the hypocotyl of a seed.
- ROLL NO. 31-37 MODEL MAKING – Plant cell
- ROLL NO. 38-45 MODEL MAKING – Animal cell
- ROLL NO. 46-51 MODEL MAKING – Different types of plant tissues (parenchyma, collenchyma, sclerenchyma)
- ROLL NO. 52-57 MODEL MAKING – Different types of muscle tissues (straited, unstraited, cardiac)

** Research projects are to be done in project files on A4 size sheets supported with appropriate pictures, diagrams or data.

SOCIAL SCIENCE

Disaster Management: Prepare a class NEWSPAPER on the disaster's impact and mitigation strategies. Take the topic as following:

Roll No.	Topics
1 – 22	Natural Disaster – Earthquake, Landslides, Floods, Droughts and Cyclones. (Any 2 Disasters)
23 and onwards	Manmade Disaster – Fire, Rail or Road or Air Accident, Terrorist attacks and Epidemics. (Any 2 Disasters)

Following essentials are required to be fulfilled for its preparation and submission.

1. The total length of the newspaper will be 4 pages of A3 size.
2. The newspaper will be hand written.
3. The newspaper will be presented in a neat manner and similar to the real newspaper in appearance.
4. The newspaper will be developed in this sequence:
 - Page 1: News related to any previous disaster as per your topic.
 - Page 2: Mitigation Strategies related to that disaster.
 - Page 3: Role of Government in Disaster Management
 - Page 4: Innovative ways to reduce the impact of the disaster and ways to create awareness for that.
 - Newspaper may have few advertisements but only related to either disaster or education.
 - Give name to the newspaper.

Geography: Ch 3: Drainage:

Collect the following information on each of the major Rivers of India. (The Ganga, the Brahmaputra, the Indus, the Mahanadi, the Godavari, the Krishna, the Kaveri) and present in the tabular form in YOUR NOTEBOOK:

- Source of the river
- Final Destination of the river
- Tributaries and distributaries
- States covered in its course
- Important characteristics: Length, special name given, features made etc.
 - Do the assignment of Chapter 1 Geography

PROMOTING GOOD HABITS

- Read the Newspaper daily and paste the 2 headlines per week mentioning any geographical phenomena. Make a collage of it under the heading... 'Everything has to do with Geography'.

Political Science

INDIVIDUAL PROJECT WORK

1)A PROJECT ON ,ONGOING LOK SABHA ELECTIONS 2019,WHICH WOULD BE INCLUDING THE FOLLOWING HIGHLIGHTS----

A)the seven phases into which elections were held.

B)the detailing of the model code of conduct.

C)the election manifesto of the major political parties.

D)cases citing in which election commission of India fulfilled its role as an election watchdog.

E)election fights intensifying through various ways of campaigning.

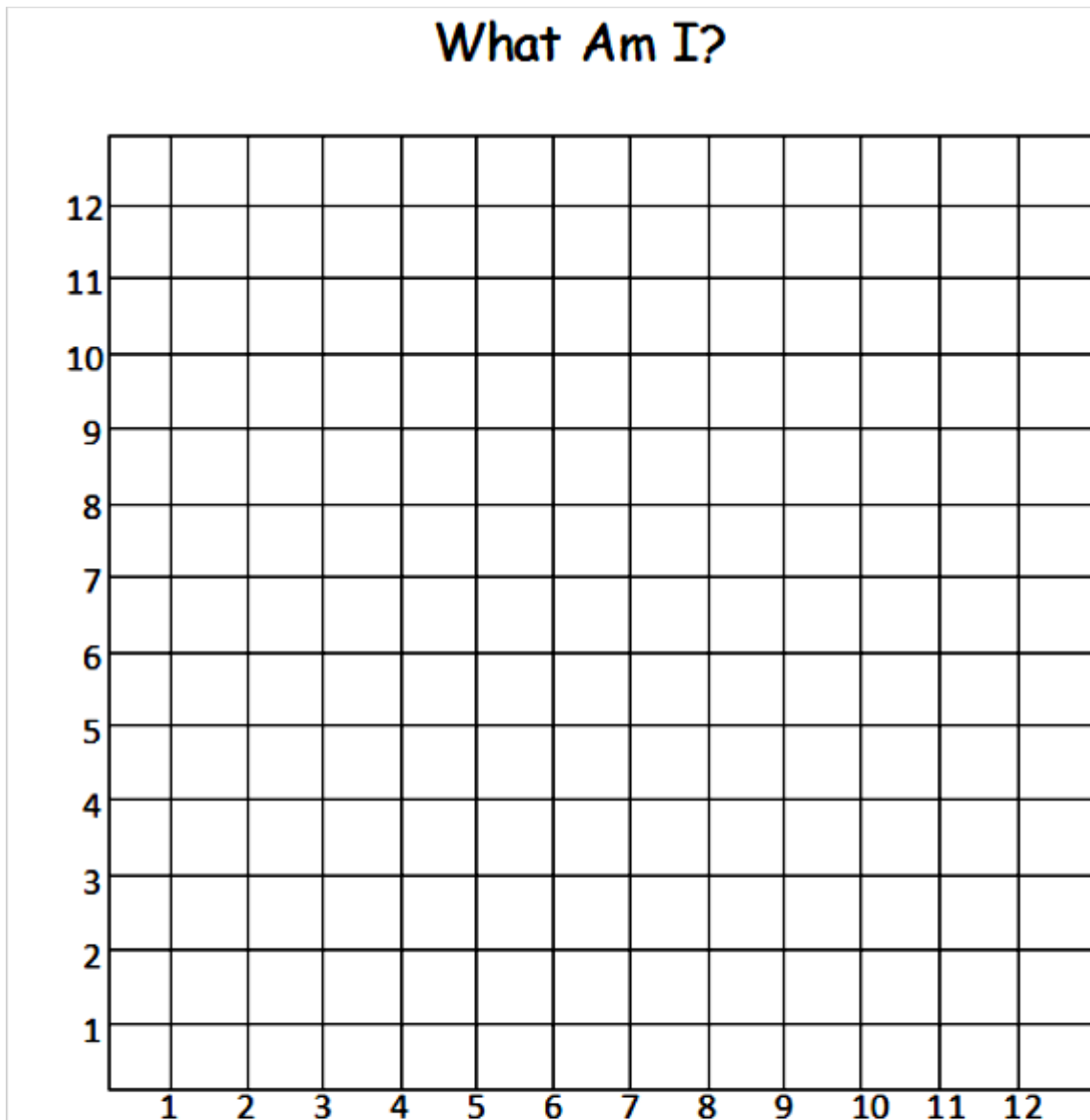
F)declaration of results.

*(AROUND 6-8 PAGES)

2)A POSTER REFLECTING THE IDEA ON “*HUMAN RESOURCE IS CONSIDERED TO BE THE MOST IMPORTANT RESOURCE*”

MATHEMATICS

➤ **Who am I?** – Plot and guess who am I?



Directions: Plot the following points on the grid. Then, draw a straight line to connect from one to the next.

- | | | |
|--------------------|--------------------|--------------------|
| 1. (8,6) to (4,10) | 4. (2,4) to (4,4) | 7. (4,2) to (2,4) |
| 2. (4,2) to (8,2) | 5. (4,6) to (4,10) | 8. (8,2) to (10,4) |
| 3. (4,4) to (10,4) | 6. (8,6) to (4,6) | 9. (4,4) to (4,6) |

➤ **Ice cream sundae** – Students will plot these coordinates, join them and get this icecream sundae

Ice Cream Sundae

Dish	Ice Cream	Spoon & Finish Ice Cream	Cherry
(-7,-1)	(-1,6)	(15,7)	(-2,13)
(-7,-2)	(0,7)	(9, 14.5)	(-2,14)
(-2,-12)	(3,7)	(10,14)	(-1,15)
(-2,-14)	(4,6)	(6,10)	(0,15)
(-5,-16)	(5,7)	(7,9)	(1, 14)
(5,-16)	(6,7)	(7,8)	(1, 13)
(2,-14)	(7,8)	(6,7)	
(2,-12)	(7,9)	(5,7)	
(7, -2)	(6,7)	(4,6)	
(7, -1)	(8,5)	(3,7)	
	(9,3)	(6,10)	
	(9,1)		
	(7,-1)		
	(6,-1)		
	(5,0)		
	(3,0)		
	(0,-3)		
	(-1,-3)		
	(-2,-2)		
	(-3,0)		
	(-5,0)		
	(-6,-1)		
	(-7,-1)		
	(-8,0)		
	(-9,2)		
	(-9,4)		
	(-8,5)		
	(-6,6)		
	(-7,7)		
	(-7,9)		
	(-6,11)		
	(-4,12)		
	(-3,13)		
	(-2,13)		
	(-1,12)		
	(0,12)		
	(1,13)		
	(2,13)		
	(3,12)		
	(5,11)		

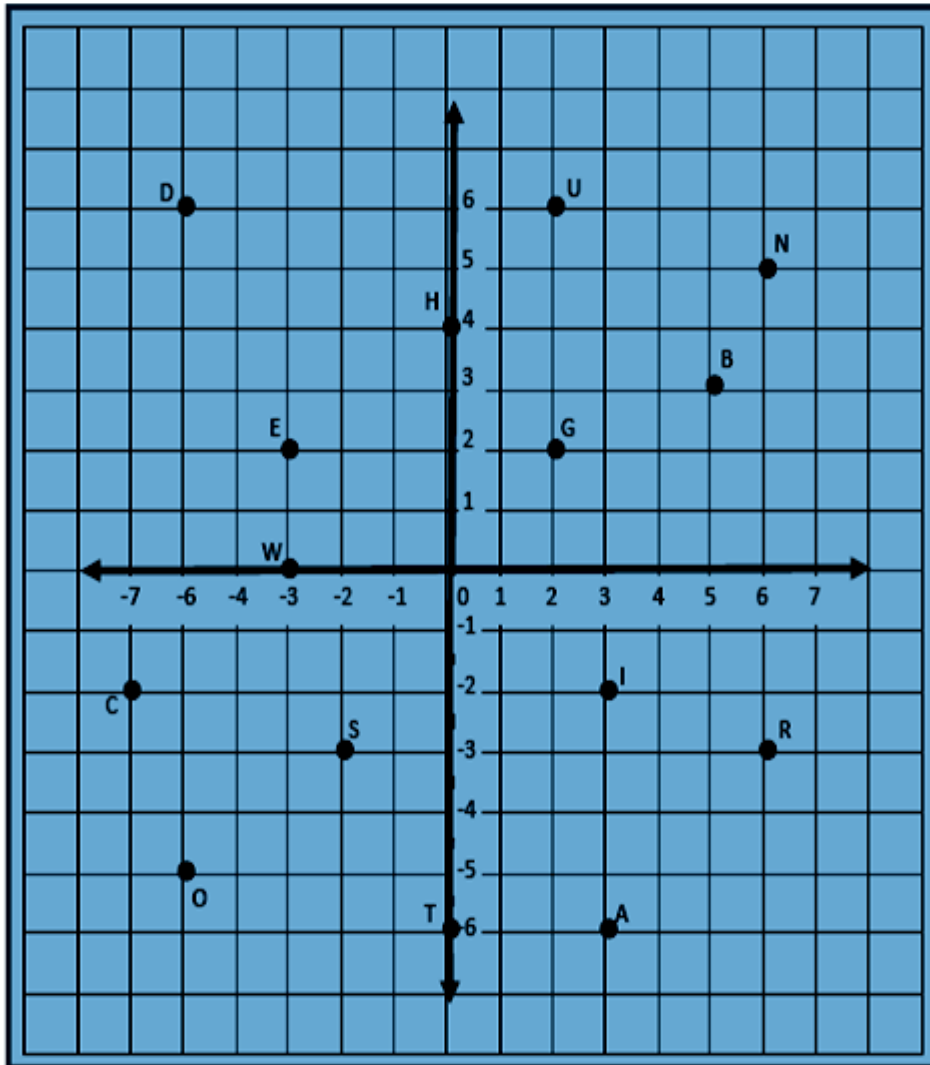


➤ Break the code and make your own code

Question: Why did the teacher always wear sun glasses in her classroom?

To find the answer, you must use the Cartesian plane below. Each coordinate on the grid represents a letter. You must use the activity sheet below which will give you a list of the coordinates. As you find each coordinate, you must write the corresponding letter above it.

When you have completed this, you will have cracked the code



Answer: _____

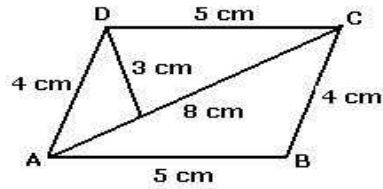
(5,3) (-3,2) (-7,-2) (3,-6) (2,6) (-2,-3) (-3,2) | (0,4) (-3,2) (6,-3) | (-2,-3) (0,-6) (2,6) (-6,6) (-3,2) (6,5) (0,-6) (-2,-3) |

(-3,0) (-3,2) (6,-3) (-3,2) | (-2,-3) (-6,-5) | (5,3) (6,-3) (3,-2) (2,2) (0,4) (0,-6)

TEST ME IN MATHEMATICS

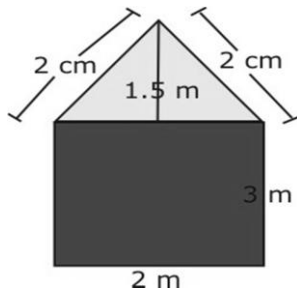
1. Without adding, find the sum. $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19 + 21 + 23$
a. 81 b. 100 c. 121 d. 144
2. 36^2 would have digit _____ at unit place.
3. Find the smallest square number that is divisible by each of the numbers 8, 15 and 20.
4. If $x + \frac{1}{x} = 6$, find $x^2 + \frac{1}{x^2}$.
5. If 60% people in a city like cricket, 30% like football and the remaining like other games, then what per cent of the people like other games? If the total number of people are 50 lakh, find the exact number who like each type of game.
6. Find the ratio of 50 paise to Rs 5.
7. Simplify: $(1.5x - 4y)(1.5x + 4y + 3) - 4.5x + 12y$
8. Which of the following is an expression?
a. $9ab + 7$ b. 7 c. $\frac{1}{4}$ d. 9
9. Show that $(a - b)(a + b) + (b - c)(b + c) + (c - a)(c + a) = 0$.
10. Simplify $(xy + yz)^2 - 2x^2y^2z$. Find the value when $x = -1$, $y = 1$ and $z = 2$.
11. The area of a square is given by the formula $A = c^2$. What will be the total area of 5 such similar squares, if the side of a square is 7 in?
12. Find the value of m for which $5^m \div 5^{-3} = 5^5$.
13. Find the value of $\left[\left(\frac{-2}{3} \right)^{-2} \right]^3$
14. A group of students were given an assignment to collect different types of leaves. The group collected 243 types of leaves. Represent the number of leaves collected in the form of exponential expression with its base being indivisible. The diameter of garden roller is 1.4 m and it is 2 m long. How much area will it cover in 5 revolutions?

15. Find the area of a parallelogram whose measurements are given in the following figure.



16. How many bricks will be required for a wall which is 8 m long, 6 m high and 22.5 cm thick, if each brick measures 25 cm \times 11.25 cm \times 6 cm?
17. The equations are linear, i.e., the highest power of the variable appearing in the equation is _____.

18. Find the area and perimeter of the dollhouse.



19. Solve:

$$2y + \frac{5}{3} = \frac{26}{3} - y$$

20. The present age of Sahil's mother is three times the present age of Sahil. After 5 years their ages will add to 66 years. Find their present ages.

21. Find the common factors of $6abc$, $24ab^2$ and $12a^2b$.

22. Factorise the following expressions:

a. $q^2 - 10q + 21$

b. $p^2 + 6p - 16$

23. Divide as directed:

a. $4yz(z^2 + 6z - 16) \div 2y(z + 8)$

b. $5pq(p^2 - q^2) \div 2p(p + q)$

24. Find and correct the errors in the following mathematical statements.

Substituting $x = -3$ in

a. $x^2 + 5x + 4$ gives $(-3)^2 + 5(-3) + 4 = 9 + 2 + 4 = 15$

b. $x^2 - 5x + 4$ gives $(-3)^2 - 5(-3) + 4 = 9 - 15 + 4 = -2$

PUZZLES

Solve the following Puzzles

1. Young woman

Recently I attended a party. There was a young beautiful woman, who also seemed very intelligent and witty. Suddenly, one of the other guests popped a question at her “How old are you?”. For a moment she looked a bit embarrassed and while I stood there wondering how she was going to wriggle out of this situation, she flashed a charming smile and answered, “My age three years hence multiplied by 3 and from that subtracted three times my age three years ago will give you my exact age”.

Can you calculate her age?

2. A surprise

Write as a repeating decimal. 811

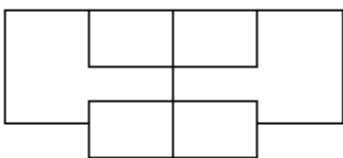
You are in for some surprise!

3. How big will it look?

You are given an angle of $2\frac{1}{2}^\circ$. How big will it look through a glass that magnifies things four times?

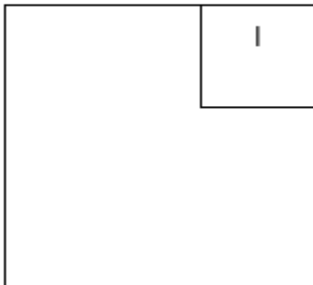
4. Counting of Squares

Count the number of squares in the adjoining figure.



5. Division of Land

A landowner died and left a large square piece of land to his wife and four sons. His wife received one-fourth of the land (part I), and his sons had to divide the remaining three-fourths of land equally. Draw a picture showing how the landowner’s sons divide the land so that each of the four parts must be of same size and same shape.



6. Placing of coins

Place 10 identical coins in such a way that they lie in 5 straight lines and on each line there are 4 coins.

Can you give two solutions?

7. Taxi Driver

Sometimes, taxi drivers can be very rude. One taxi driver I had the occasion to travel with was lacking in courtesy, and so I asked his taxi's number.

The driver gave me a cynical smile and said, well, if you divide its number by 2, 3, 4, 5 or 6, you will find there is always 1 remaining. But if you divide it by 11, there is no remainder. Do you want to know something more? There is no other cab in this town with a lower number than mine who can say the same, and he drove off, while I stood there completely baffled.

What was the taxi's number?

COMPUTER SCIENCE

PROJECT WORK

Prepare a Mathematical Puzzle or Mathematical Game.

OR

Prepare a working model and best model will be selected for maths exhibition. Innovative ideas will be awarded.

Create a Power Point Presentation to market a real life or an imaginary product.

(for example: 'A Flying Shoe' or 'A Time Watch' or 'A Magic Pencil- which can convert your drawings into a real product' or 'A flying Car' or 'A drone Camera').

Mandatory Specifications of Product needed to be added to the PPT:

Name of The Company & Product

Images or Videos of the Product

Price of the Product & Versions (If any)

Explain working of the product

Why people should purchase the product

Evaluation criteria:

The PPT should correspond to Product theme

Inclusion of Images & Videos

Animation & Transition Effects

URL links of references used

Usage of Smart art

Minimum Slides 10 & maximum 15

Kindly mail your PPT to me on crpfcomputer.project@gmail.com by 15th April,2020