Home Assignment Model Answers – 25 April 2020

Class VII

ENGLISH

Q.1 You have recently developed a new hobby and are really enjoying it. Write a letter to your cousin telling him/her of your new passion. Give interesting details so that your cousin gets interested in it too.

Answer:
Sender's Address

Date (mm/dd/yy)

Dear John

I hope this letter finds you at the pink of health. I know that it's difficult now to pass time and that's why I am writing this letter to tell you what I have found interesting during the lockdown period!

Have you heard of Satyajit Ray's Feluda Series? A Bengali detective who solves really tough cases at ease?! I got this book for my birthday and I found it to be *unputdownable*. The best part is that Feluda has Topshe, his cousin to help him with the cases. Topshe is exactly as young as we are! I sincerely feel that you should borrow/buy the books or read them online. Once you start with one adventure, I can assure you, you won't be able to stop reading them! The stories that I like the best are 'The Emperor's Ring', 'Feluda in Kolkata'.

I will eagerly wait for you to read the stories and let me know all about them. Also, in the next letter don't forget to mention the name of your favorite story! It's an unexplored world John, dive into it! I am sure everybody is keeping well, till the next letter, take care.

Yours lovingly

Tara

(Address)

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Q.2 In life we get but a few wonderful opportunities to spend quality time with our family and get to know them closely. Write a diary entry within 80 words sharing your experience of spending quality time with your family.

Answer:

Well, to start with, I am overwhelmed to see both my parents, my grandparents at home for such a long time! It's unbelievable! They always have work, most of the time they are out at the office or business trips but as the lockdown was announced all of them are at home!!!

I am so excited because today we were having breakfast together and grandpa told me how papa was so naughty as a child, I found it very funny! Do you know grandpa and grandma water the plants everyday? When they do that, they exchange the sweetest smiles I have ever seen.

I don't know what will happen to the world, I am sure something good is in store but I would really love to be quarantined with my family forever because I never imagined them to be so loving and caring about each other! That's definitely something I needed to know!

Q.3 Alice was a curious and confident girl. One fine day, she decided to clean her bookshelf. As soon as she went in front of it and opened the door...............

Complete this story within 120 words. Remember to make it interesting and exciting! Also supply a catchy title to the story.

Answer:

The Beaver Couple

I am Alice, the confident girl of the question! As I opened the door of my bookshelf, I saw Mr. Beaver standing right infront of me! I was startled but I knew for sure that there must have been an emergency. I asked him, "Hello Mr. Beaver, how are you doing?" Mr. Beaver didn't appear happy, he said with a low voice, "Alice, we are in danger, you have to come to save us." I didn't waste a minute; I simply got into my bookshelf and closed the door and ahoy!!! There was the wonderland, my wonderland...vibrant, beautiful wonderland!

Mr. Beaver said, "The red king has taken Mrs. Beaver away because he needed a chef, now I am so helpless, all alone with the kids." I assured him, "Don't worry

Mr. Beaver, I will definitely take care of the things, let me go and talk to the red king first." I went to the huge Red palace of the red king, he sat on his throne, enjoying kebabs prepared by Mrs. Beaver! There she was! Serving the unkind king!

"Red King, I intend to ask why have you brought Mrs. Beaver here, do you know she has a family?" The Red kind got angry, he yelled, "So what! I wanted to eat finest of foods so I brought the expert here, who are you to question me?" I said, "Do you know what is the true meaning of a king? A king is a saviour, a protector and a guide, look at you, are any one of them?" The king was surprised, he said, "No, I have been forceful, unkind and so needy, how come I never realised that?" I said, "That's what is good in you as you have realised your mistake, I request you to release Mrs. Beaver, her family is waiting for her."

What a stupendous day it was in Wonderland, everybody danced and ate to their heart's content, and I? I returned home, I always believed wisdom triumphs evil, now I am in real hurry as mom is coming to see whether my bookshelf is at place! Hey friends, believe in the goodness of people, give them chance to change for themselves. Bye!

Q4. Science is the basis of the working of the world. Be it a clock or a human being, Science controls it all. Throw light on this statement by writing a paragraph of about 130 words.

Answer: Free Response

Mathematics

Topic: Algebra and Simple Equations

Q1. Write equation for the following statements :

    a) The sum of numbers x and 4 is 9.
       Answer: x + 4 = 9
    b) 2 subtracted from y is 8.
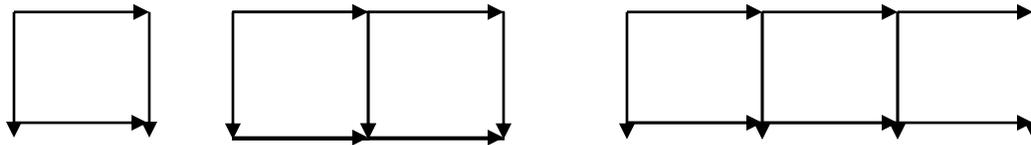   **Answer: y – 2 = 8**
    c) 2 subtracted from four times number P is 18.
       Answer: 4p -2=18
    d) If you add 3 to one – third of x, you get 20
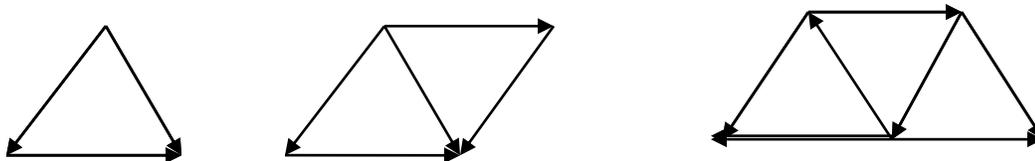   **Answer: x/3 + 3 = 20**

Q2. Observe the pattern of squares (made of matchsticks). The squares are not separate. Two neighbouring squares have a common matchstick.

No. of squares	1	2	3	4	....	n
No. of matchsticks	4	7	10	13	....	3n+1

The No. of matchsticks required to make **n** squares is 3n+1 i.e 3 times no. of squares + 1. Using this find the general rule for the following matchstick pattern.

Number of triangles	1	2	3	....	n
Number of matchsticks	3	5	7	....	2n +1

Q3. Leela is Radhika's younger sister. Leela is 4 years younger than Radhika. Write Leela's age in terms of Radhika's age? Take Radhika's age to be x years.
Solution : Let Radhika's age be x years
Answer: $\therefore$ Leela's age = x-4 years

Q4. Four times a certain number decreased by thrice the same number gives 17. Find the number.
Solution : Let the number be x.
4x – 3x = 17
$\therefore$ x = 17
Answer: $\therefore$ The number is 17

Q5. If 130 + x = 420, what number replaces x to make the sentence true?

Solution : 130 + x = 420
x = 420 – 130
Answer: x = 290

Q6. What is the value of $3k^2 + 4k + 7$, if k = 1?

Solution : k = 1
= $3*1^2 + 4*1 + 7$
= 3+4+7
Answer: 14

Q7. In the equation $5x + 4y$ = 70, what is the value of x when y = 5?
Solution : $5x + 4y$ = 70 y = 5
$5x + 4*5$ = 70
$5x$ = 70 – 20
$5x$ = 50
x = 50/5 =10
Answer: x = 10

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Q8. In a family, the consumption of wheat is 4 times that of rice. The total consumption of the two cereals is 80 kg. Find the quantities of rice and wheat consumed in the family.

Solution: Let the consumption of rice be x kg

So, consumption of wheat = $4x$ kg

$x + 4x = 80$

$5x = 80$

$x = 80/5$

$x = 16$

Answer: ∴ quantity of rice consumed is 16 kg

Quantity of wheat consumed is 16*4 = 64 kg

Q9. Advait and Ayush donate some money in PM Cares fund. The amount donated by Ayush is ₹ 125 more than that donated by Advait. If the total money donated by them is ₹975, find the amount of money donated by Advait.

Solution : Let the amount donated by Advait be ₹ x

Amount donated by Ayush = ₹ (x + 125)

∴ x + x + 125 = 975

2x = 975 – 125

2x = 850

x = 850/2

x = 425

Answer: ∴ Advait donated ₹ 425

Q10. Akshat's house had a rectangular garden of perimeter 40m. The length of the garden is 4m less than 5 times its breadth. Find the length of the garden.

Solution : Let the breadth of the Garden be x m

Length of the Garden = 5x – 4 m

Perimeter = 40m

2(l + b) = 40

2(5x – 4 + x) =40

6x – 4 = 20

6x = 24

x = 4

Answer: ∴ breadth = 4m

Length = 5x – 4

= 5*4 – 4

= 20 – 4

Length =16m

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Q11. In an isosceles triangle, the base angles are equal and the vertex angle is 80°. Find the measure of the base angles.

Solution : Let the base angles be x°

By angle sum property of a triangle

$x + x + 80 = 180°$

$2x = 180 - 80$

$2x = 100°$

$X = 50°$

Answer: ∴ Each base angle is of 50°

Q12. A 300 m long wire is used to fence a rectangular plot whose length is twice its width. Find the length and breadth of the plot.

Solution : Let the breadth be x m

Length = 2x m

Perimeter = 300

$2(x + 2x) = 300$

$3x = 150$

$x = 150/3$

$x = 50$

Answer: Breadth = 50m.

∴ Length = 2x

= 2*50 = 100m

Equations Crossnumber

Complete the puzzle by solving the equations which make up the clues.

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Science

II. Ancient (Latin) names for the elements

Modern Name	Symbol	Ancient Name
1. Antimony	Sb	Stibium
2. Gold	Au	Aurum
3. Iron	Fe	Ferrum
4. Silver	Ag	Argentum
5. Sodium	Na	Natrium
6. Potassium	K	Kalium
7. Lead	Pb	Plumbum
8. Mercury	Hg	Hydrargyrum

III. Complete the sentences with the words below:

Capital   two   elements   symbol   small

1. The short way of writing an element name is called its symbol.
2. The first letter of a chemical symbol is always a capital letter.
3. If a chemical symbol has two letters, the second letter is always a small letter.
4. A chemical symbol never has more than two letters.
5. Chemists use symbols for the names of elements.

IV. An Elemental Tale: The Gold Dust Kid

The Kid mounted his trusty steed, old [B] Boron. His shooting [Fe] Iron strapped to his side, he headed out for the bright [Ne] Neon lights of Toronto, aiming to rob the mid-day stage. There was sure to be a load of precious [U] Uranium aboard, and probably [K] Potassium, too. Inhaling a deep breath of [O] Oxygen he coughed on the [S] Sulphur from the nearby mills. Since the [Hg] Mercury was climbing, he quenched his thirst with some H_2O, tasting the [Cl] Chlorine all big cities like Brockville had. As he headed north his bones ached from [Ca] Calcium deposits built up over the years of riding the [Zn] Zinc trail. Overhead a [He] Helium-filled balloon floated in the breeze; the sun beat down like burning [P] Phosphorus. Soon he spotted the stage, guarded only by a sheriff with a [Sn] Tin badge. "Halt," he yelled. "or I'll fill you full of [Pb] Lead." The sheriff drew his gun, but alas, was too

slow. The Kid's gun, blazing like flaming [Mg] <u>Magnesium</u> did the [Cu] <u>Copper</u> in. Anyone who drew on the Kid should know his life wasn't worth a plugged [Ni] <u>Nickel</u>. A [Pt] <u>Platinum</u> blonde riding beside the [Al] <u>Aluminium</u>-framed coach rode for her life when the Kid pulled out some [N] <u>Nitrogen</u> compounds, preparing to blow the safe to atoms. Suddenly, a shout rang out, "Hi Ho [Ag] <u>Silver</u> and a masked man on a white horse raced across the [Si] <u>Silicon</u>sands like [Na] <u>Sodium</u>skittering on H_2O. A [H] <u>Hydrogen</u> bomb would not have stopped the lawman; the Kid had met his doom. The rest of his life was to be spent behind [Co] <u>Cobalt</u> steel bars, a warning to all who flirt with danger. Your first detention may be the initial step in a [C] <u>Carbon</u>copy life of the saga of the [Au] <u>Gold</u>dust Kid.

V. Names of the Elements**:**

A. Some elements are named after places. Write the name of the element that is named after the place given in each question.

1. The country of France. <u>Francium</u>
2. The country of Germany. <u>Germanium</u>
3. America: <u>Americium</u>
4. The country of Poland. <u>Polonium</u>
5. Scandinavia: <u>Scandium</u>
6. One of our states(State of US). <u>Californium</u>
7. The city of Berkeley: <u>Berkelium</u>
8. The continent of Europe. <u>Europium</u>

B. Four of the elements are named after planets. Complete the chart below for the elements named after planets.

Name of the Element	Name of the Planet
Plutonium	Pluto
Uranium	Uranus
Mercury	Mercury
Neptunium	Neptune

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C. Many elements are named after famous scientists. The scientist's last name is used along with the ending "ium". Write the element after each scientist given below:

1. Albert Einstein: <u>Einsteinium</u>

2. Pierre and Marie Curie: <u>Curium</u>

3. Enrico Fermi: <u>Fermium</u>

4. Alfred Nobel: <u>Nobelium</u>

5. Dmitri Mendeleev: <u>Mendelevium</u>

6. Ernest Lawrence: <u>Lawrencium</u>

Element Symbols:

D. Complete the following table by filling in the missing word or symbol.

Element	Symbol	Element	Symbol
Carbon	C	Chlorine	Cl
Hydrogen	H	Copper	Cu
Oxygen	O	Gold	Au
Nitrogen	N	Silver	Ag
Sulfur	S	Helium	He
Iodine	I	Aluminium	Al
Iron	Fe	Calcium	Ca
Lead	Pb	Neon	Ne
Mercury	Hg	Potassium	K
Phosphorus	P	Sodium	Na

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E. The elements in the following table are ones that have symbols that come from their Latin names. See how many Latin names you can get right in this table. Study the element symbol and pick the Latin names from the list in the last column of the table.

English Name	Symbol	Latin Name	Latin Name (Choices)
Antimony	Sb	Stibium	Argentum
Copper	Cu	Cuprum	Aurum
Gold	Au	Aurum	Cuprum
Iron	Fe	Ferrum	Ferrum
Lead	Pb	Plumbum	Hydrargyrum
Mercury	Hg	Hydrargyrum	Kalium
Potassium	K	Kalium	Natrium
Silver	Ag	Argentum	Plumbum
Sodium	Na	Natrium	Stannum
Tin	Sn	Stannum	Stibium
Tungsten	W	Wolfram	Wolfram

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Social Science

Topic: On Equality

Q.1 COMPREHENSION PASSAGE

i) State the importance of elections in a democratic country.

Answer: The importance of elections is as follows:
- Universal adult franchise is an essential feature of modern democracies as it gives right to every citizen to vote and choose his /her representatives to form the government.
- People hold the power to change and remove the government if it is inefficient thereby demonstrating that they have the ultimate authority.
- Elections provide an opportunity to the people to assert their views, opinion and choose the representatives whose priorities and ideals match with them most.
- Elections also enables the voters to hold the government accountable for its performance.

ii) How does the constitution of India promote equality?

Answer: The constitution of India promotes equality in the following ways:
- Every person is equal before the law.
- No person can be discriminated on the basis of their religion, caste, race, gender or colour.
- Every person has equal access to public places and facilities like playgrounds, hotel, religious places, shops, markets, parks, wells and canals.
- Untouchability has been abolished. Its practise in any form is a punishable offence.

iii) 'Indian democracy is a boon to the Indian society'. Discuss in not more than 80 words

Answer: Indian democracy is definitely a boon to the society as:
- Democracy is a form of government which allows our people to freely participate in the governance of the country.
- The government elected by us is answerable to us for all its acts and policies.
- It allows freedom of speech and expression.
- It aims at ensuring political, social and economic equality.

iv) In daily life, we still find many examples of inequalities. With the help of one real life example, share how you have witnessed or experienced inequality or discrimination around you.

Answer: Students' own views.

Q.2 To express your ideas or any aspect of equality that you read about, create a piece of art in any form. You may choose to write a poem, design a poster or draw a sketch.

Answer: Students are expected to design a poster/poem/sketch on Equality.