

Home Assignment Model Answers May 03, 2020

Class VII

English

Q1. Like the classic of H.G.Wells 'The Time Machine', you came across a wonderful gadget that teleported you 15 years in the future. One day, you somehow find a way to send a message to your younger self. What would your advice or warning be? Write a note to your younger self in 100- 120 words. You may use illustrations or sketches if required.

Answer:

Dear Self

When I was twelve years old, I wanted the years to fly by. Well, they literally did and I find myself in the future somehow! I am your future self and there are some things that I wish I had done differently.

Firstly, be serious about school. Listen to your teachers, strive for good grades. It will make things easier. Education is how you challenge your thinking and become a better person.

Secondly, never be afraid to follow your dreams. We both know you love writing poetry, but are too shy to do anything about it! Now, you CAN have a career you love and write poetry as much as you like. Someday you will surely be famous!

All the best!

With love

Your senior self!

Q2. The wonderful world of books takes us to the magical land of fairies, elves, unicorns, giants, gnomes and what not! Given a choice which magical creature would you like to be and why? Write a poem of not more than four stanzas depicting your point of view.

Answer:

The Magic Inside Me

If I were a unicorn
I'd fly around for days
Making little girls wonder
About my magical ways.
I'd chase the rainbows
I'd feast on dew drops
I'd nuzzle the soft down
On the pink apricot crops.
I love my carefree ways, but
I think I should also try
To heal the sick and mend the hearts
And comfort babies who cry.
This magic is His gift to me
And although I'm His favourite child
Powers are meant to be used for good
Or I'd just be a pony, running in the wild.

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Q3. Imagine that your parents have asked you to manage the home for one full day. They are at home but you are IN CHARGE!

Share your thoughts in a paragraph of about 100-120 words on how you will manage the house, what you will cook, what are the things you will do, the ways you will keep them cheerfully occupied.

Remember, you are to do your utmost to make it the best day of their lives!

Answer:

Today, when my mom asked me to manage the house for a day, I decided to make the day really special. My brother and I decorated our living room like never before. We welcomed them at the door with flowers. We arranged soft cushions and multicoloured paper flowers and served them chilled lemonade. We took out old CDs of family celebrations and we all enjoyed watching them together. And now all the fireless cooking classes came in handy! After a sumptuous lunch of a variety of sandwiches, ice cream and of course more lemonade, we sang for them. At the end of the day, we beamed with satisfaction when father said, "This has been the best day of our lives!"

Q4. Crack! kaboom! pow! wham! vroom! What do these onomatopoeic words remind you of? Comic books of course!

Create a comic strip of not more than 8 frames/picture boxes. You may also use interjections like 'Oops!', 'Wow!', 'Bravo!' to make the dialogues interesting. Take help from the examples of onomatopoeic speech bubbles.

Answer:



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हिंदी

प्रश्न 1. निम्नलिखित कहानी को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के उत्तर लिखिए-

उत्तर

- i. कहानी के दो मुख्य पात्र हैं-
(क) छोटा बच्चा - बहुत जिम्मेदार एवं व्यवहारकुशल।
(ख) दुकानदार - शांत, प्रेम एवं अपनत्व के भाव से युक्त।
- ii. दुकानदार चाहता था कि बच्चे में सकारात्मक सोच बढ़े, वह अच्छा इंसान बनकर दूसरों की सहायता करने के लिए प्रेरित हो सके।
- iii. रुचि की वस्तुओं के नाम स्वविवेकानुसार लिख सकते हैं। जैसे-सिक्के, टिकिट, दुर्लभ चित्र आदि।

प्रश्न 2. दिए गए वर्णों में से स्वर एवं व्यंजन अलग अलग करके नीचे तालिका में लिखिए -

उत्तर 2- स्वर -औ, ई ऋ, ऊ

व्यंजन - म, ज, श द

प्रश्न 3 'र' के उचित रूप का प्रयोग कीजिए -

उत्तर

- | | |
|---------------|--------------|
| i. धर्म | v. सिर्फ |
| i. वर्ण | vi. क्रिया |
| ii. ड्रम | vii. गर्मी |
| iii. प्रदर्शन | viii. दीर्घ |
| iv. ट्रक | ix. आशीर्वाद |

प्रश्न 4 निम्नलिखित शब्दों और उनके वर्ण-विच्छेदों का मिलान कीजिए-

उत्तर

- | | | |
|--------|------|-------|
| 1. ज | 5. झ | 9. ख |
| 2. क | 6. ङ | 10. घ |
| 3. छ | 7. च | |
| 4. ज्ञ | 8. ग | |

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प्रश्न 5. निम्नलिखित शब्दों को पंचमाक्षर का प्रयोग करके पुनः लिखिए-

उत्तर

हिन्दी ,कञ्चन ,सन्त ,पञ्जाब ,पण्डित, गङ्गा

प्रश्न 6. नीचे दिए गए चित्र को देखकर मन में उठे विचारों को 35 से 40 शब्दों में लिखिए-

उत्तर चित्र वर्णन स्वविवेकानुसार

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Mathematics

Q.1 Give statements for the following cases:

- (i) $y + 6$: A number y increased by 6
(ii) $t - 6$: 6 subtracted from a number t
(iii) $3x + 7$: three times a number x increased by 7
(iv) $2y - 6$: two times a number y reduced by 6
(v) $2n - k$: k reduced from two times a number n
(vi) $-7p$: -7 times a number p

Q.2 simplify the following expressions.

- (i) $x + 2 + 5 = x + 7$ (ii) $5e + 5e^2 - 5e = 5e^2$ (iii) $x^2 + 5y - 3y = x^2 + 2y$
(iv) $3a + 2a + 5a = 10a$ (v) $3u + u + 2u^2 = 4u + 2u^2$

Q.3 Factorize the following:

- (i) $6 + 12f = 6(1 + 2f)$ (ii) $15 + 27x = 3(5 + 9x)$ (iii) $10p + 20 = 10(1p + 2)$
(iv) $18 + 45r = 9(2 + 5r)$ (v) $24d - 30 = 6(4d - 5)$

Q.4 Let Kanika's present age be x years. Complete the following table showing ages of her relatives:

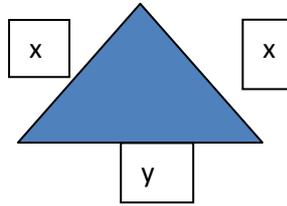
SITUATION (described in simple language)	EXPRESSION
Her Brother is two years younger	$x - 2$
Her father's age exceeds her age by 35 years	$x + 35$
Mother's age is 3 years less than that of her father	$(x + 35) - 3 = x + 32$
Her grandfather's age is 8 times her age	$8x$

Q.5 If m is a whole number less than 5, complete the table:

m	0	1	2	3	4
2m-5	-5	-3	-1	1	3

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Q.6 What is the perimeter of the triangle given below:



Solution: Perimeter = $x + x + y$
Answer : $2x + y$

Q.7 Savitri has a sum of ₹ x . She spent Rs 1000 on grocery, ₹ 500 on clothes, ₹ 400 on education and received ₹ 200 as gift. Write an expression to show money left with her?

Solution : Money Savitri had initially = x
 Money received as gift = Rs. 200
 Total Money with Savitri = $x + 200$
 Money spent by Savitri = $1000 + 500 + 400 = 1900$
 \therefore Money left with savitri = $x + 200 - 1900$
Answer : $x - 1700$

Q.8 Length and breadth of a school bulletin board is r cm and t cm respectively.

(i) What will be the length of the aluminium strip required to frame the board.

Answer : Length of strip = Perimeter of the board
 $= 2(r + t)$ cm

(ii) If x nails are required to repair one board, how many nails are required to repair 15 such boards.

Answer : $= 15x$

(iii) What will be the expenditure for making 23 boards, if the carpenter charges ₹ c per board?

Answer : $= 23c$

Q.9 Distributive property rule states that $a(b + c) = a*b + a*c$. using this rule solve the following:

- (i) $4(h + 1) = 4h + 4$
- (ii) $2(- 3b - 5) = -6b - 10$
- (iii) $(- 3 + r)8 = -24 + 8r$
- (iv) $6(3q - 3) = 18q - 18$
- (v) $3(6 + 2p) = 18 + 6p$

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Q.10 Solve the following equations:

(i) $b - 32 = 7$

Solution: $b = 7 + 32$

Answer: $b = 39$

(ii) $q - (-2) = 18$

Solution: $q + 2 = 18$

$q = 18 - 2$

Answer : $q = 16$

(iii) $3(x + 5) = 18$

Solution : $x + 5 = 18/3$

$x + 5 = 6$

$x = 6 - 5$

Answer : $x = 1$

(iv) $4x + 7 = 15$

Solution : $4x = 15 - 7$

$4x = 8$

$x = 8/4$

Answer : $x = 2$

(v) $5x - 3 = x + 17$

Solution : $5x - x = 17 + 3$

$4x = 20$

$x = 20/4$

Answer : $x = 5$

Q.11 The sum two consecutive even numbers is 74. Find the numbers. (Consecutive even numbers are represented as $x, x + 2$)

Solution : $x + x + 2 = 74$

$2x + 2 = 74$

$2x = 74 - 2$

$2x = 72$

$x = 72/2$

$x = 36$

so $x + 2 = 36 + 2 = 38$

Answer: The required even numbers are 36 and 38.

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ACTIVITY

Simplify each expression by combining the like terms. Find the answer at the bottom of the page. Write the letter on the appropriate line below to spell out a secret message. (Some letters may be used more than once).

1. I	2. T	3. W	4. A	5. S	6. A	7. J	8. O	9. B
10.W	11. E	12. L	13. L	14. D	15. O	16. N	17. E	

1. $20b+5$	2. $4p$	3. $9m+6p+12$	4. $9m+12$
5. $30a+b$	6. $9m+12$	7. $15p$	8. $14y$
9. $15z+5$	10. $9m+6p+12$	11. $n+9$	12. $5g+35$
13. $5g+35$	14. $5m+17n+5$	15. $14y$	16. $18m+18$
17. $n+9$			

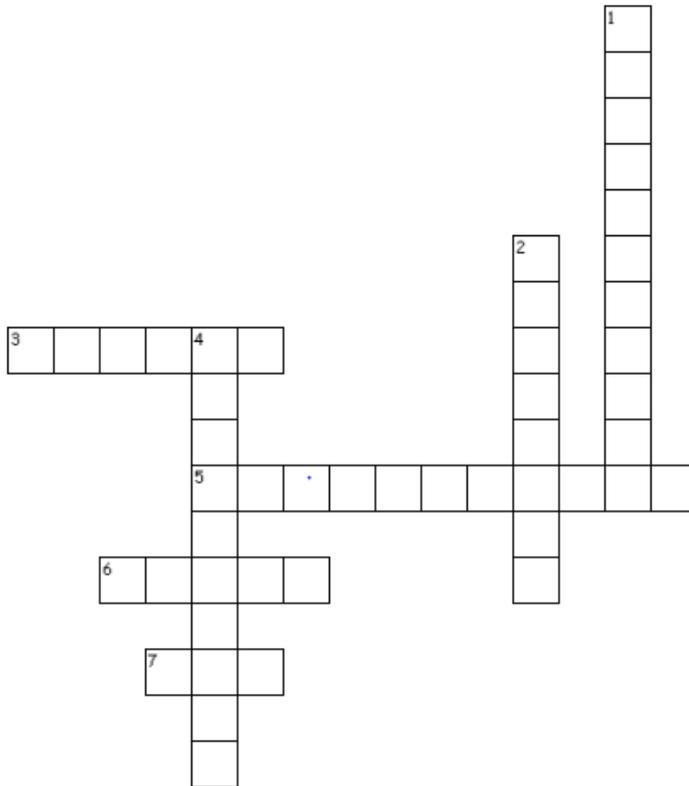
IT WAS A JOB WELL DONE. (secret message)

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Science

I. Crossword keys



1. Speedometer
2. Odometer
3. Second
4. Nanosecond
5. Oscillatory
6. Speed
7. Bob

II. Word problem keys

a. Convert 54 km/hr into m/s.

Answer: Given speed = 54km/hr

Conversion : 1km/hr = 1000m/3600sec = 5/18m/s

$$\begin{aligned}
 \text{Speed} &= 54\text{km/hr} \\
 &= 54 \times 5/18 \\
 &= 270/18 \\
 &= 15\text{m/s}
 \end{aligned}$$

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b. A train is travelling at a speed of 100 km/hr. How long will it take to complete a journey of 500 km without stopping in between?

Answer: Train goes 100km in 1hr
Train goes 5 x 100km in 5 x 1hr = 5 hours

c. Ramesh takes 15 minutes to reach market from his house on his cycle. If the speed of his cycle is 4 m/s calculate the distance between his house and market.

Answer: Speed = 4m/s
Time = 15 min
= 15 x 60sec
= 900 sec
Now, Distance = speed x time
= 4 x 900
= 3600m / 3.6 km

III. Classification of types of motion

- Motion of our hands while running – oscillatory motion
- Motion of a horse pulling a cart on a straight road – straight line/ rectilinear motion
- Motion of a kid in a merry-go-round – circular motion
- Motion of a child on a see-saw- oscillatory motion
- Motion of the hammer of an electric bell - oscillatory motion
- Motion of a train on a straight bridge - straight line/ rectilinear motion

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Social Science

ENVIRONMENT (GEOGRAPHY)

A.

i) How is biosphere important for the sustenance of life?

Answer: The narrow zone where the lithosphere, hydrosphere and atmosphere meet and interact is called the biosphere. This sphere supports life and is thus called the 'living world'. The biosphere consists of the plant and animal kingdom.

The biosphere provides nutrients and resources to all living organisms, thus, the biosphere is very important to us.

ii) Identify an ecosystem near your home. It may be a pond, a garden or a park. Collect pictures or draw different biotic & abiotic elements of any one of the ecosystems and show how these are interdependent on each other.

Answer: The size of the ecosystem varies greatly. It can be as large as the rainforests, grasslands, deserts, lakes, rivers or as small as a pond.

Example – A typical pond ecosystem contains fish, frogs, algae, water lilies and other species that live in and around the pond. These species interact with each other and also with the abiotic environment.

B) FOOD FOR THOUGHT

i) What is the meaning of Odd-Even in this context?

Answer: Odd-Even is a scheme introduced by Delhi Govt to tackle pollution. Acc To this system, vehicles with odd registration number (ending with 1,3,5,7,9) are allowed on odd days and only vehicles with even nos.(2,4,6,8) allowed on even days.

ii) What are the benefits of such experiment?

Answer: Benefits of odd- even scheme are as follows:

- Reduction in road congestion
- Slight drop in pollution levels
- The restriction on cars have been followed up with measures to boost public transport, including more buses.

iii) What problems do people face because of such experiments?

Answer: Students are expected to research and express their views.

iv) Can we implement this strategy in our own city, Indore? Explain briefly.

Answer: Free Response

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C) Pen down your thoughts on what an ideal environment should be like. Mention its five characteristics. You can also draw and explore your creative and imaginative skills.

Answer: Characteristics of an ideal environment are as follows:

- An ideal environment should be pollution free.
- It should contain enough availability of different resources.
- Healthy air and landscapes.
- No noise pollution, water purity.
- It can also be access to quality education, healthy food, healthcare and preventive services etc.