

BRAIN INTERNATIONAL SCHOOL

WINTER HOLIDAYS HOMEWORK

SESSION-2024-25

CLASS-VIII

"If we had no winter, the spring would not be so pleasant: if we did not sometimes taste of adversity, prosperity would not be so welcome."

TO DO LIST

Divide the time judiciously for studies and recreational activities

Revise the syllabus covered so far

Be kind to nature

Perform morning exercise to stay fit.

Converse in English

Spend quality time with your family

ENGLISH

Prepare and record a short storytelling performance using puppets.

Theme- *“A Walk through History - Introducing famous historical events or personalities in an entertaining manner.”*

Instructions:

- Create a puppet show with characters and dialogues.
- Use any type of puppet (e.g., hand puppets, sock puppets, stick puppets, or finger puppets) to tell your story.
- Write a brief script for the story, keeping it engaging and creative.
- Record the video of your puppet show, ensuring good visibility and clear sound.
- Time limit- 2 minutes

Share your recorded video along with the script via mail to your respective subject teacher.

We hope you enjoy this creative task. Looking forward to your wonderful presentations!



हिन्दी

प्रश्न 1. निम्नलिखित पठित गद्यांश को पढ़कर प्रश्नों के उत्तर दीजिए।

एक दिन की बात है कि दूर एक प्रचंड प्रकाश-पिंड दिखाई पड़ा। उनकी आँखें चौंधियाने लगीं। यह पिंड बड़ी तेज़ी से सूर्य की ओर बढ़ रहा था। ज्यों-ज्यों पास आता जाता था, उसका आकार बढ़ता जाता था। यह सूर्य से लाखों गुना बड़ा था। उसकी महान आकर्षण-शक्ति से हमारा सूर्य काँप उठा। ऐसा ज्ञात हुआ कि उस ग्रहराज से टकराकर हमारा सूर्य चूर्ण हो जाएगा। वैसा न हुआ। वह सूर्य से सहस्रों मील दूर से ही घूम चला, परंतु उसकी भीषण आकर्षण-शक्ति के कारण सूर्य का एक भाग टूटकर उसके पीछे चला। सूर्य से टूटा हुआ भाग इतना भारी खिंचाव सँभाल न सका और कई टुकड़ों में टूट गया। उन्हीं में से एक टुकड़ा हमारी पृथ्वी है। यह प्रारंभ में एक बड़ा आग का गोला थी।”

“ऐसा? परंतु उन लपटों से तुम पानी कैसे बनी।”

“मुझे ठीक पता नहीं। हाँ, यह सही है कि हमारा ग्रह ठंडा होता चला गया और मुझे याद है कि अरबों वर्ष पहले मैं हद्रजन (हाइड्रोजन) और ओषजन (ऑक्सीजन) के रासायनिक क्रिया के कारण उत्पन्न हुई हूँ। उन्होंने आपस में मिलकर अपना प्रत्यक्ष अस्तित्व गँवा दिया है और मुझे उत्पन्न किया है।

प्रश्न I प्रचंड प्रकाश-पिंड सूर्य की ओर बढ़ते समय उसका आकार क्यों बढ़ता जा रहा था?

- क) वह सूर्य को अपनी ओर खींच रहा था।
- ख) उसकी आकर्षण-शक्ति बहुत अधिक थी।
- ग) वह सूर्य से टकराने वाला था।
- घ) वह सूर्य के नजदीक आता जा रहा था।

प्रश्न II पृथ्वी कैसे बनी?

- क) सूर्य के टकराने से उत्पन्न ऊर्जा से।
- ख) सूर्य के एक भाग के टूटने से।
- ग) प्रकाश-पिंड के सूर्य को खींचने से।
- घ) गैसों के संयोजन से।

प्रश्न III पानी कैसे बना?

- क) आग के गोले से सीधे ठंडा होकर।
- ख) सूर्य से टकराने वाले प्रकाश-पिंड से।
- ग) हद्रजन और ओषजन की रासायनिक क्रिया से।
- घ) पृथ्वी के ठंडे होने से।

प्रश्न IV यह कहानी कौन, किसे सुना रहा है ?

MATHS

- A. Learn multiplication tables from 2 to 25.
- B. Learn squares of natural numbers from 1 to 25.
- C. Learn cubes of natural numbers from 1 to 10.

WORKSHEET - Do the following questions in A4 sheet.

MULTIPLE CHOICE QUESTIONS

Q1). The digit in the tens place of a two-digit number is 3 more than the digit in the unit's place. Let the digit at unit's place be b. Then the number is

- (i) $11b + 30$ (ii) $10b + 30$ (iii) $11b + 3$ (iv) $10b + 3$

Q2). What least number must be subtracted from 14 to make it a perfect square

- (i) 2 (ii) 7 (iii) 4 (iv) 5

Q3). The area of a square field is 2500 m^2 . Its side is

- (i) 25 m (ii) 500 m (iii) 250 m (iv) 50 m

Q4). The area of a square is 25 cm^2 , so its perimeter is

- (i) 10 cm (ii) 5 cm (iii) 50 cm (iv) 20 cm

Q5). If we double the length of a square, its area will increase to

- (i) double (ii) 4 times (iii) 3 times (iv) 8 times

Q6). Find the lateral surface area of a cylinder with circular base of radius 7 cm and height 10 cm

- (i) 440 cm^2 (ii) 70 cm^2 (iii) 140 cm^2 (iv) 220 cm^2

Q7). If $16 \times 9 = 12 \times m$, the value of m is

- (i) 10 (ii) 12 (iii) 15 (iv) 14

Q8). Raju earns ₹ 1440, if he works for 12 days. If he works for 30 days, he will earn

- (i) ₹ 4000 (ii) ₹ 3600 (iii) ₹ 4800 (iv) ₹ 5000

SHORT/ LONG ANSWER TYPE QUESTIONS

Q9). The present age of father is four times the age of his son. After 10 years, age of father will become three times the age of his son. Find their present ages.

Q10). Solve the following:

(i) $\frac{2x-3}{4x+5} = \frac{1}{3}$

(ii) $\frac{8}{x} = \frac{5}{x-1}$

(iii) $\frac{5(1-x)+3(1+x)}{1-2x} = 8$

Q11). The sum of three consecutive even natural numbers is 48. Find the greatest of these numbers.

Q12). What must be subtracted from $3a^2 - 6ab - 3b^2 - 1$ to get $4a^2 - 7ab - 4b^2 + 1$?

Q13). For what kind of triangle will the angles be $4x^\circ$, $(5x - 15)^\circ$ and $(2x + 30)^\circ$?

Q14). A hall is 15m long, 10m wide and 5m high. Its walls and the roof are to be white washed from inside. Find the

(i) Total area to be white washed.

(ii) Cost of white washing from inside at rate of ₹8 per m^2 .

Q15). At a Navratri mela a stall keeper in one of the food stalls has a large cylindrical vessel of base radius 15 cm filled up to a height of 32 cm with orange juice. The juice is filled in small cylindrical glasses of radius 3 cm up to a height of 8 cm. How many glasses of juice did he sell?

Q16). Simplify:

(i) $\frac{2^{-3}x^{-2}y^4z^5}{2^{-3}x^2y^{-1}z^5}$

(ii) $\left\{ \left(\frac{1}{3}\right)^{-2} - \left(\frac{1}{2}\right)^{-3} \right\} \div \left(\frac{1}{4}\right)^{-2}$

(iii) $(6^{-1} - 8^{-1})^{-1} \div (2^{-1} - 3^{-1})^{-1}$

(iv) $\left[\frac{3^{-2}}{5}\right]^{-2}$

(v) $(6^{-1} - 8^{-1})^{-1} + (2^{-1} - 3^{-1})^{-1}$

Q17). Solve and find the value of x : $16^{3x} = 32^{(5x-13)}$

Q18). The following table shows the number of articles and their cost in rupees:

(i) Represent the above table by a graph.

No. of articles	2	4	6	8	10
Cost price (in ₹)	150	300	450	600	750

(ii) From the graph answer the following questions.

(a) What will be the cost of 7 articles?

(b) How many articles can be purchased for ₹ 375?

CASE STUDY BASED QUESTIONS

Q19). Many schools have a recommended students-teacher ratio as 35:1. Next year, the school expects an increase in enrolment by 280 students.

(i) How many new teachers will they have to appoint to maintain the students-teacher ratio?

(ii) Board members of school XYZ decided to keep the ratio as 30:1. Total how many teachers will be appointed if the strength of the school is 1800?

(iii) A school has 15 teachers working. How many more teachers will be needed if the total strength of school is 735 and they want to maintain a ratio of 35:1?

- Q20). A box contains a cylinder and a cube. The height and radius of cylinder are 7cm and 14cm respectively. It has been observed that side of cube is half of the radius of cylinder. Based on the above information answer the following questions
- Find the side of the cube.
 - Find the curved surface area of cylinder?
 - Which has greater volume cube or cylinder? Why?

MULTIPLE ASSESSMENT ACTIVITIES

Take printout of the following sheets, complete the activities and then paste in NCERT register.

MENSURATION

Word Maze									
r	h	r	h	o	m	b	u	s	z
a	t	h	a	m	o	b	s	u	q
b	t	r	a	p	e	z	l	u	m
c	y	l	i	n	d	e	r	b	c
t	z	w	v	a	m	q	r	e	u
i	j	l	t	q	n	g	b	a	b
k	b	d	f	v	s	g	t	r	o
s	z	q	c	i	r	c	l	e	i
a	w	h	m	a	n	k	p	e	d

Find the names of the solids from the given word maze whose areas or volumes are given below by colouring the boxes using the given colour code.

	Area/Volume	Colour Code
1.	$\frac{1}{2} d_1 \times d_2$	red
2.	$l b h$	blue
3.	$\pi r^2 h$	yellow
4.	πr^2	green
5.	$\frac{1}{2} b h$	orange
6.	$\frac{1}{2} (a + b) \times h$	pink

EXPONENTS AND POWERS

Fill in the blanks

- 1) In $x^m \times x^n = x^p$, p is the _____ of m and n .
- 2) -7 is the _____ of two exponents -5 and -2 .
- 3) The value of a^n if $n = 0$ is _____.
- 4) Very small numbers can be expressed in standard form using _____ exponents. (positive/negative)
- 5) The value of 3^{-2} is _____.
- 6) The value of $\frac{1}{2^{-3}}$ is _____.
- 7) 5^7 is read as 5 raised to the _____ of 7.
- 8) As the exponent decreases by 1, the value becomes _____ of the previous value.
- 9) a^{-m} is the _____ inverse of a^m .
- 10) 1.24×10^{-4} is known as the _____ form of 0.000124.

DIRECT AND INVERSE PROPORTIONS

CHOOSE THE CORRECT ANSWER

- (1) If two quantities x and y vary directly with each other, then
 - (a) $\frac{x}{y}$ remains constant.
 - (b) $x - y$ remains constant.
 - (c) $x + y$ remains constant.
 - (d) $x \times y$ remains constant.
- (2) Which of the following vary inversely with each other?
 - (a) speed and distance covered.
 - (b) distance covered and taxi fare.
 - (c) distance travelled and time taken.
 - (d) speed and time taken.
- (3) Both x and y vary inversely with each other. When x is 10, y is 6, which of the following is not a possible pair of corresponding values of x and y ?
 - (a) 12 and 5
 - (b) 15 and 4
 - (c) 25 and 2.4
 - (d) 45 and 1.3
- (4) If x and y vary inversely then on decreasing x
 - (a) y will decrease
 - (b) y will increase
 - (c) y remains unchanged
- (5) When $x = 10$, $y = 5$ and when $x = 20$, $y = 2.5$ then x and y are in
 - (a) directly proportion
 - (b) inverse proportion
 - (c) not in proportion

SCIENCE

Answer the following questions in your Science notebook :

1. What are rods and cones in the retina of an eye?
2. The distance between the object and its image formed by a plane mirror appears to be 18 cm. What is the distance between mirror and the object?
3. What do you mean by reflection of light? Write the laws of reflection.
4. Explain why it is safer to use a wireless telephone instead of a landline telephone during lightning.
5. What are the precautions to be taken to make the building “quick safe”?
6. Explain the construction and working of an instrument used to detect presence of charge with the help of well labelled diagram.

SOCIAL STUDIES

Do the following question answers in Civics Register.

- Q1 Discuss the role of social reformers in improving the condition of women in India during the 19th century.
- Q2. How did the British view the traditional Indian society and its culture?
- Q3. Discuss the different types of farming practiced in India and their characteristics.
- Q4. How does the government fund and maintain public facilities in India? Discuss the challenges involved in ensuring their availability to all citizens.
- Q5. Give a detailed description about TISCO.

FRENCH

Take the print-out of the following worksheet and complete it.

Q1. Complétez les phrases avec les verbes proposés au futur simple.

1. Vendredi soir, vous **venir** _____ à la maison, et nous **manger** _____ des légumes du jardin
2. Tu **enlever** _____ ton chapeau et tes gants et tu **s'asseoir** _____ en silence.
3. Demain, nous **se lever** _____ tôt et nous **se promener** _____ dans la forêt.
4. Elle **cueillir** _____ les roses.
5. Ce soir, nous **regarder** _____ des photos et nous **se souvenir** _____ des beaux moments.
6. Elle **conduire** _____ prudemment lorsqu'elle **sortir** _____.
7. Après le cours, vous **boire** _____ un verre, vous **rire** _____ et **avoir** _____ du bon temps avec vos amis.
8. Ils **attendre** _____ quelques minutes et ils **prendre** _____ le train.
9. Les enfants, vous **se taire** _____, lorsque je **dire** _____ de le faire.
10. Il **falloir** _____ nous prévenir quand vous **recevoir** _____ des nouvelles.

Q2. Conjuguez au futur simple.

1. Je _____ (devoir)

2. Tu _____ (être)

3. Il _____ (aller)

4. Nous _____ (envoyer)

5. Elles _____ (pouvoir)

6. Vous _____ (voir)

c) Die Eisdielen liegt neben _____ Hotel.

(i) der (ii) dem (iii) die (iv) das

d) Wir treffen uns in _____ Sportgeschäft.

(i) der (ii) dem (iii) die (iv) das

e) Wir treffen uns vor _____ Museum.

(i) der (ii) dem (iii) die (iv) das

Q4. Wo oder Wohin?

a) _____ lernst du Deutsch?

b) _____ essen wir heute?

c) _____ gehen wir spazieren?

d) _____ kauft man Eier?

e) _____ geht Stefan um 18.00 Uhr?

Q5. Stell Fragen.

a) _____
Neben dem Kino.

b) _____
Ja, vor dem Supermarkt.

c) _____
In der Bäckerei oder im Supermarkt.

d) _____
In der Langerstraße.

e) _____
Im Bioladen.

संस्कृत

प्रश्न 1 अधोलिखितम् अनुच्छेदं पठित्वा प्रश्नानाम् उत्तराणि लिखत ।

संस्कृतसाहित्यस्य उज्ज्वलरत्नानि 'वने लंकायाः नृपः रावणः छलेन सीताम् अहरत् । श्री रामः लक्ष्मणः च वने इतस्ततः अभ्रमताम् । श्री रामः सुग्रीवस्य सहायकः अभवत् । सुग्रीवस्य हनुमानस्य सहायतया रामः लंकाम् प्रविष्टत् । तत्र रामस्य रावणेन सह युद्धम् अभवत् । युद्धे श्री रामः सकलान् राक्षसान् लंकापतिम् रावणम् च अमारयत् । श्री रामः रावणस्य अनुजाय विभीषणाय लंकायाः राज्यम् अयच्छत् । ततः चतुर्दशवर्षाणाम् पश्चात् सः सीतया लक्ष्मणेन च सह अयोध्याम् प्रति आगच्छत् । तत्र रामस्य राजतिलकः अभवत् । रामस्य राज्ये सकलाः अपि प्रजाः सुरक्षिताः प्रसन्नाः च अभवन् । अतः रामस्य राज्यम् प्रसिद्धम् अस्ति ।'

अ) एकपदेन उत्तरत ।

क) सीताम् कः अहरत्?

ख) श्री रामस्य युद्धम् केन सह अभवत्?

ग) कः राजतिलकः अभवत्

आ) पूर्णवाक्येन उत्तरत ।

क) श्रीरामः सीतया लक्ष्मणेन च सह कुत्र प्रति आगच्छत्?

ख) श्री रामस्य राज्यम् किमर्थम् प्रसिद्धम् अस्ति?

ग) कस्य सहायतया रामः लंकाम् अप्रविष्टत्?

इ) निर्देशानुसारम् उत्तरत -

क) रामस्य राज्ये प्रसन्नः च अभवन् । (उचितपदेन पूरयत)

ख) 'अनुजाय' इति शब्दस्य विभक्तिं लिखत ।

ग) गद्यांशस्य उपयुक्तं शीर्षकं लिखत ।

घ) अनुच्छेदे द्वौ अव्ययशब्दान् चित्वा लिखत ।

प्रश्न 2 अस्मद् , युष्मद् , लता , राम किम् त्रिषु लिङ्गेषु शब्दरूपाणि उत्तरपुस्तिकायां लिखत व स्मरणं कुरु ।

प्रश्न 3 हस धातुरूपाणि सर्वेषु लकारेषु उत्तरपुस्तिकायां लिखत व स्मरणं कुरुत ।

प्रश्न 4 भवान् नितिशः । भवतः मित्राय रक्तदानशिविरविषयकम् लिखितम् इदं पत्रं मञ्जूषायां लिखितैः उचितपदं पूरयत ।

प्रिय मित्र प्रणव!

1

अत्र 2..... अस्ति । ह्यः अस्माकम् विद्यालये 3आयोजनम् कृतम् । अस्माकम्

4..... प्रथमं स्वरक्तम् 5 । छात्राणाम् उत्साहम् 6.....मया अपि

7..... कृतम् । आशास्ति भवान् अपि अस्मिन् 8..... योगदानं करिष्यति । शेषं कुशलम्

विद्यते । 9.....नमः ।

भवतः मित्रम्

10.....

कार्यं, दृष्ट्वा, रक्तदानम्, सर्वकुशलम्, अयच्छत्, नितिशः, प्राचार्यः, सप्रेमं नमस्कारः, रक्तदानशिविरस्य, पितृभ्यां

प्रश्न 5 चित्रम् आधृत्य पञ्चानि वाक्यानि लिखत । सहायतार्थम् पदानि मञ्जूषायाम् दत्तानि सन्ति ।

मञ्जूषा

बालकेन्द्रः, बालाः, खेलन्ति, अस्ति, चित्रकलां, कुर्वन्ति, एषः, मिलित्वा, वसन्ति



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