



# SPRINGFIELD PUBLIC SCHOOL

## Holiday Homework

Session(2024-25)

**CLASS:- 7th**

**SUBJECT:- MATHEMATICS**

### INSTRUCTIONS :

1. Solve the following worksheets in holiday homework notebook.
2. Activities to be done on A-4 size sheets.

### WORKSHEET- 1

1. What is the difference between greatest two-digit positive number and smallest three-digit negative number?

(a) 199                      (b)110                      (c)1100                      (d)1098

2. What is the value of the expression:

$$(-216) - (-351) + (-98) - (71) + (28) - (-56) ?$$

(a) -50                      (b)15                      (c) -15                      (d)50

3. Fill in the blanks:

(a)  $(-55) + \underline{\hspace{1cm}} = (-89)$

(b)  $(-70) \div \underline{\hspace{1cm}} = 5$

(c)  $(-7) \times (+2) = \underline{\hspace{1cm}}$

(d)  $86 - (-47) = \underline{\hspace{1cm}}$

4. Verify the following

i)  $(-25) \times [(-7) + (-15)] = [(-25) \times (-7)] + [(-25) \times (-15)]$

ii)  $(-7) \times [(-8) + 9] = [-7 \times (-8)] + [(-7) \times 9]$

5. The temperature of a city was found to be  $30^{\circ}\text{C}$  on a particular day .

Next day, the temperature was found to be  $-40^{\circ}\text{C}$  .

What is the change in the temperature of the city over the two days?

(a) Decrease by  $70^{\circ}\text{C}$

(b) Decrease by  $10^{\circ}\text{C}$

(c) Increase by  $70^{\circ}\text{C}$

(d) Increase by  $10^{\circ}\text{C}$

6. Find the product using suitable proportion :-

a)  $8759 \times 2391 - 2391 \times 7759$

b)  $(-9785) \times 937 + (-215) \times 937$

c)  $35 \times (-25) \times (-4) \times 10$

7. Write down a pair of integers whose

(a) Sum is 3

(b) Sum is 0

(c) Difference is 2

(d) Difference is 5

8. Fill in the blanks with  $<$ ,  $>$  or  $=$  sign.

(a)  $(-3) + (-6)$  \_\_\_\_\_  $(-3) - (-6)$

(b)  $(-21) - (-10)$  \_\_\_\_\_  $(-31) + (-11)$

(c)  $45 - (-11)$  \_\_\_\_\_  $57 + (-4)$

(d)  $(-25)-(-42)$  \_\_\_\_\_  $(-42)-(-25)$

9. What will be the sign of the product  $a \times b$  if-
- i)  $a$  is the product of 5 positive integers and  $b$  is the product of 9 negative integers.
  - ii)  $a$  is the product of 6 positive integers and  $b$  is the product of 8 negative integers.
  - iii)  $a$  is positive and  $b$  is the product of 50 negative integers.
10. In a class test containing 15 questions, 4 marks are given for every correct answer and (-1) marks are given for every incorrect answer.
- i) Gokul attempts all questions but only 6 of his answers are correct. What is his total score?
  - ii) Neena gets 12 of her answers correct. What will be her score?

### ACTIVITY

- Make a magic square  $3 \times 3$  and  $4 \times 4$  using the integers.
- Maths Board Game Design:- Students will design their own maths theme board game, frame rules, incorporate mathematical concepts fractions, geometry or operations.
- Modelling project:- Design a budget for a hypothetical event it can be a house party or family outings. In a diary write down the total sum allotted for budget and then write all expenses and mention statistics of the same.

<b>Subject: Science</b>
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1. Conduct the following experiment.

Take three potted plants of the same height. Label them A, B and C. Water plant A with distilled water, plant B with tap water and plant C with salt water for a week. What changes do you observe in all the plants ?

Note down your observations and give reasons for your answer.

2. Draw the diagram of human digestive system and highlight pancreas in it, then write information about how is diabetes related to pancreas?

## WORKSHEETS

### TOPIC - NUTRITION OF ANIMALS

Fill in the blanks

- a. The process in which complex food is broken down into simple, water soluble substances is called \_\_\_\_\_
- b. Digestive tract & \_\_\_\_\_ together constitute the digestive system.
- c. The set of teeth that grows during infancy is called \_\_\_\_\_
- d. Common passage for food & air is \_\_\_\_\_
- e. The pushing down of food due to rhythmic contraction & relaxation of wall of alimentary canal is called \_\_\_\_\_
- f. \_\_\_\_\_ are finger like outgrowth in inner walls of small intestine.
- g. \_\_\_\_\_ is the part of stomach in ruminants where food is stored temporarily.
- h. \_\_\_\_\_ is large sac between small & large intestine where cellulose of food is digested.
- i. \_\_\_\_\_ is the largest gland in human body.
- j. \_\_\_\_\_ is the enzyme present in saliva which acts on starch of food.

Answer The Following Questions

1. What does gastric juice help to convert?
2. What is the main function of teeth?
3. What are the two components of digestive system?
4. What is oesophagus ?
5. Why does bread taste sweet when chewed for some time?

6. Give one instant source of carbohydrate?
7. Where the digestion does starts?
8. What is not digested by human?
9. Name the glands present in the mouth.
10. Where is bile produced?
11. Name the process of taking in food?
12. What helps the food to taste it by our tongue?
13. Name the largest gland in human body.
14. Which part of Amoeba helps in capturing the food particles?
15. Name the organ that helps in nutrition in Hydra?
16. Which organ is known as the foodpipe?

## **Topic- HEAT**

### **1. FILL IN THE BLANKS**

- a. A reliable measure of the hotness of an object is its\_\_\_\_\_
  - b. The range of a clinical thermometer in Celsius scale is \_\_\_\_\_  
& in Fahrenheit is\_\_\_\_\_
  - c. The range of laboratory thermometer is\_\_\_\_\_
  - d. \_\_\_\_\_ thermometer does not use mercury.
  - e. Heat is transferred in liquids by\_\_\_\_\_
  - f. We receive heat from sun by\_\_\_\_\_
  - g. Heat travels through solids by\_\_\_\_\_
  - h. The maximum and minimum temperatures of the previous day, reported in weather reports, are measured by the thermometer called \_\_\_\_\_ thermometer.
2. What is the normal temperature of human body in °C & °F?
  3. Why is mercury used in thermometers?

4. What precautions should be observed while reading a clinical thermometer?
5. What precautions should be observed measuring temperature with a laboratory thermometer?

**Give reason why :-**

- a) Rooms are provided with ventilators & exhaust fans near top of side walls.
- b) It is advisable to place room heaters at the ground level for effective heating.
- c) Air conditioners should be installed at the top windows.
- d) Shopkeepers while selling ice blocks, usually cover them with jute sacks.

Note :- Do the given worksheet in fair notebook.

### **Subject – English**

1. Write 20 antonyms and 20 synonyms on A4 sized sheet.
2. Write one spooky story and you can quote it as your personal experience.
3. Revise and learn the lesson and poems, done till now.
4. Make a collage of Major Women Authors of 19th Century. Why women authors used to write with a 'PEN NAME'? Find out one such author and write about her.

### **Subject – Social Science**

- 1) The mid day meal scheme is one government scheme aimed at ensuring Equality. Find out 2 such schemes launched by the government and write about them.
- 2) Collect information about various Kings and Queens from the medieval period and make a collage from them. Collect information on
  - a) Prithviraj III
  - b) Razia Sultan
  - c) Akbar
- 3) Write a note on international yoga day and its significance for India. Read and write about any two Yoga-Gurus of India . Paste relevant pictures.
- 4) Draw a diagram of the lifecycle of a river?

5) This given homework to be done in a separate file or scrapbook.

6) a. Total number of Lok Sabha Seats.....

b. Total number of Vidhan Sabha seats.....

c. Total number of Blocks in your District.....

d. Number of villages in your District.....

### हिंदी गृहकार्य

1) जीवन में आगे बढ़ने के लिए भाग्य और परिश्रम में से आप किस को अधिक महत्व देंगे इस विषय पर 150 शब्दों में लिखिए।

2) ग्रीष्मावकाश में निम्नलिखित कार्य करते हुए अपने चित्र लीजिए व उन चित्रों से एक फोटो फ्रेम बनाइए-

3) पौधों को पानी देते हुए, पक्षियों को दाना/ पानी डालते हुए, प्रातः कालीन शुद्ध वायु में बगीचे में योगा/ व्यायाम करते हुए, गरीब असहाय लोगों को अन्न / वस्त्र इत्यादि दान स्वरूप देते हुए, बड़े बुजुर्गों की सेवा कर आशीर्वाद लेते हुए, धार्मिक स्थल मंदिर/ गुरुद्वारे इत्यादि में पूजा अर्चना सेवा कार्य करते हुए, पर्यटनस्थल पर भ्रमण करते हुए, मित्रों संग आंतरिक या बाह्य खेलों का आनंद लेते हुए।

4) अपनी मनपसंद कविता को चार्ट पर बनाए व याद करें।

आपकी छुटियाँ आनंददायक हों, सब स्वस्थ रहें, सुरक्षित रहें।

### Subject: Fine Art

1. Referencing Vincent van Gogh, renowned artist for his vibrant and emotive post-impressionist works, here's an idea for an innovative painting inspired by his style:

Imagine a modern cityscape at dusk, infused with Van Gogh's characteristic swirling skies and expressive brushstrokes. The buildings, painted with bold, contrasting colors, have a dreamlike quality, blending realism with abstraction. The sky, a swirl of deep blues and purples with hints of gold and pink, reflects the energy of the city. Streetlights and windows glow with warm, inviting light, creating a sense of movement and life. This painting captures the essence of Van Gogh's emotional depth and dynamic style, translating it into a contemporary urban setting.

2. Make a 2 minute video while making a Healthy Summer Smoothie.

Healthy Summer Smoothie Ingredients:

- 1 cup coconut water
- 1 cup frozen mango chunks
- 1/2 cup pineapple chunks
- 1/2 cup Greek yogurt
- 1 tablespoon chia seeds

**Instructions:**

1. Combine all ingredients in a blender.
2. Blend until smooth.
3. Pour into a glass

Subject -Computer

**Application Based Task(as per Syllabus)**

Imagine that we are going to live with robots in near future. Robots become part of our family and helping us in our daily life. For ex:- Doing our homework, cleaning our house and write your views about it in your fair notebook

- Learn and Write Exercise and Question Answers of Chapter -1( App development), Chapter-2( Krita- Image Editing) in a fair notebook.

<b><u>Subject : GK</u></b>
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- Find about Election Commission of India and make chart showing the working of ECI.
- Read & Write 5 News articles and paste the pictures related to same in a scrap book.
- Names of all Indians States, their Capitals, Union Territories. Depict them on political map of India also.
- Names of all Presidents of India, Chief Justice till date.