

**Dr. Virendra Swarup Education Centre, Avadhपुरi, Kanpur**

**Summer Holiday Assignment (2024-25)**

**Class – 7**

Subject	Homework
English Language	<ul style="list-style-type: none"><li>➤ Title- Voyage of words.</li><li>➤ Complete questions 51 to 70 and comprehension passages 3 and 4 from the <i>Safal Genius Book</i>.</li><li>➤ Complete units 2 and 3 from the super comprehension book.</li><li>➤ Find and record 50 new words you encounter during your summer break based on the following themes-<ul style="list-style-type: none"><li>• Nature</li><li>• Science and Technology</li><li>• Emotions</li><li>• Sports and Recreation</li></ul></li><li>➤ Find the meaning of each word, their synonyms and antonyms and write examples of how each word can be used in a sentence.</li><li>➤ Use the words from your word bank in a creative writing piece such as a short story, poem, or descriptive paragraph based on any one of the given themes.</li></ul>
English Literature	<ul style="list-style-type: none"><li>➤ Prepare for July Test.</li><li>➤ <u>Oliver Twist</u>- Read and prepare chapters 1 to 10 for the class assessment to be held in July.</li></ul>
Hindi Language	<ul style="list-style-type: none"><li>➤ अपनी दिनचर्या में से समय निकालकर किसी वृद्धाश्रम व अनाथालय में जाएँ और उनकी यथा संभव सहायता करने का प्रयास करें तथा वहाँ का वर्णन अपने शब्दों में करें। शब्द सीमा 200 से 250</li></ul>
Hindi Literature	<ul style="list-style-type: none"><li>➤ निम्नलिखित पौराणिक तथा आधुनिक चरित्रों के नाम दिए गए हैं। उनके बारे में मान्यता है कि इन्हें कुछ विशेष शक्तियाँ प्राप्त थीं। उनके बारे में लिखिए व चित्र लगाइए। हनुमान, धृतराष्ट्र, रावण, सुपरमैन, बैटमैन, स्पाइडर-मैन।</li></ul>
Mathematics	<ul style="list-style-type: none"><li>➤ Solve the given worksheet in practice register.</li></ul>
Physics	<ul style="list-style-type: none"><li>➤ Prepare for July test.</li><li>➤ Density of liquids: Investigate the density of liquids (tap water, salty water, sugar solution) by doing a sinking and floating experiment with various objects such as coins, fruits and small toys in liquids of different densities. Students can predict and test which objects will sink and float in each liquid. Write your observations and conclusions in Physics notebook.</li></ul>
Chemistry	<ul style="list-style-type: none"><li>➤ Make a list of chemicals which you use in your daily life. Paste at least 5 materials in your class notebook.</li></ul>
Biology	<ul style="list-style-type: none"><li>➤ To study that how apical meristem causes growth in length and record your observations for 7 days in your notebook.</li></ul>
History / Civics	<ul style="list-style-type: none"><li>➤ Make a project on the topic "The constitution of India" With the help of the picture of the Preamble or sketch explain the ideals in your own words.</li></ul>
Geography	<ul style="list-style-type: none"><li>➤ Choose any 4 places in Europe and describe their tourism. Use pictures to showcase the beauty of these places.</li><li>➤ Do the worksheet.</li></ul>
Computer Science	<ul style="list-style-type: none"><li>➤ Do pages 65 to 68 in <i>Safal Genius Book</i>.</li></ul>
Art	<ul style="list-style-type: none"><li>➤ Complete and submit the given craft in July.</li></ul>

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**Subject: Mathematics**

**Q1. Multiple Choice Questions:**

- i) If  $q < 0 < p$ , then the number of integers between  $p$  and  $q$  is  
a)  $p - q - 1$     b)  $p + q + 1$     c)  $p + q - 1$     d)  $p - q + 1$
- ii) On simplifying,  $|8 - 11| \times |1 - 2|$ , we get  
a)  $-3$     b)  $3$     c)  $6$     d)  $-6$
- iii) A girl can walk,  $1\frac{2}{3}$  km in one hour. How many kilometers will she walk in  $3\frac{1}{4}$  hours?  
a)  $4\frac{5}{8}$  km    b)  $6$  km    c)  $4\frac{11}{12}$  km    d)  $5\frac{5}{12}$  km
- iv) On simplification,  $13 \div 5.2 + 0.024$  of  $0.8 + 0.3$  gives  
a)  $29.92$     b)  $24.92$     c)  $20.492$     d)  $2.992$
- v) Rashmi is driving at  $46.75$  km/hr. How far will she go in 24 minutes?  
a)  $9.35$  km    b)  $18.7$  km    c)  $28.05$  km    d)  $37.4$  km
- vi) The solution of the equation  $\frac{3x}{2} + 6 = 8 + x$  is  
a)  $x = 2$     b)  $x = -4$     c)  $x = -8$     d)  $x = 4$
- vii) If  $\frac{3}{5}$  is added to twice the reciprocal of a number and the sum obtained is 1, then the number is  
a)  $3$     b)  $5$     c)  $\frac{2}{3}$     d)  $\frac{5}{3}$
- viii) The perimeter of a rectangle is  $54$  cm. If its width is  $2$  cm more than  $\frac{1}{4}$  of its length, then length is  
a)  $12$  cm    b)  $16$  cm    c)  $20$  cm    d)  $24$  cm
- ix) The integer to be added to  $(-25 \times 15)$  to make  $350$  is  
a)  $25$     b)  $-25$     c)  $375$     d)  $725$
- x)  $5 - [12 - \{2 - (4 - \overline{3 - 5})\}]$  equals  
a)  $4$     b)  $-3$     c)  $-7$     d)  $-11$

Q2. ASSERTION - REASON QUESTIONS:

Directions : In the following questions, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option for each from the options given below :

- a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).
- c) Assertion (A) is true but Reason (R) is false.
- d) Assertion (A) is false but Reason (R) is True.

(i) Assertion (A) : If  $2\left(y + \frac{3}{2}\right) = 4.5$

then,  $y = 0.75$  is the root of equation.

Reason (R) :

A linear equation has two unique solutions.

CORRECT OPTION : \_\_\_\_\_

(ii) Assertion (A) :

$$5 \times [(-2) + (-5)] = [5 \times (-2)] + [5 \times (-5)]$$

Reason (R) :

Multiplication is associative.

CORRECT OPTION : \_\_\_\_\_

(iii) Assertion (A) :

$\frac{2}{9}$  is a mixed recurring decimal

Reason (R) :

In mixed recurring decimals some of the digits in decimal part are not repeated and rest are repeated.

CORRECT OPTION : \_\_\_\_\_

(iv) Assertion (A) :

$\frac{17}{21}$  and  $\frac{204}{252}$  are equivalent to each other.

Reason (R) :

If  $\frac{a}{b}$  is a fraction then all equivalent fractions are of form  $\frac{na}{nb}$ .

CORRECT OPTION : \_\_\_\_\_

### CASE STUDIES :

- Q3. Vijay and Seema are siblings. Vijay is older than his sister by 12 years. Four years ago, Vijay was four times as old as his sister.
- What is the present age of Vijay?  
a) 21 years      b) 24 years      c) 20 years      d) 30 years
  - Seema's present age is \_\_\_\_\_.  
a) 8 years      b) 12 years      c) 5 years      d) None of these
  - After 20 years, Vijay's age will be  
a) 6 times Seema's      b) 5 times Seema's  
c) 8 times Seema's      d) 12 more than Seema's
  - If Vijay celebrated his birthday on 14<sup>th</sup> May, 2024, then when did he celebrate his 5<sup>th</sup> birthday?  
a) 14<sup>th</sup> May, 2004      b) 14<sup>th</sup> May, 2009  
c) 14<sup>th</sup> May, 2005      d) 14<sup>th</sup> May, 2019
- Q4. A man climbs total 50 stairs in his house for workout. For every 4 steps he climbs he steps down 3 steps. He keeps following this pattern and finally reaches 50<sup>th</sup> step.
- If he is at 6<sup>th</sup> step, how many total steps has he climbed down?  
a) 12      b) 15      c) 18      d) 10
  - In how many attempts will he be able to reach 50<sup>th</sup> step?  
a) 49      b) 25      c) 51      d) 50
  - If he is at 32<sup>nd</sup> step, how many total steps has he climbed up?  
a) 120      b) 128      c) 132      d) None of these
  - If he climbs total 192 steps with this pattern, then at what step is he now?  
a) 48      b) 40      c) 38      d) 35
- Q5. Convert following into a vulgar fraction.
- $0.\overline{23}$       b)  $17.\overline{13}$       c)  $0.6\overline{8}$
- Q6. Simplify :
- $118 - [121 + (11 \times 11) - 4(-4) - \{3 - 9 - 2\}]$
  - $\left(\frac{2}{3} - \frac{1}{2} - \frac{1}{3} \text{ of } \frac{1}{2}\right) + \left(\frac{5}{6} - \frac{2}{3} \text{ of } \frac{1}{6} + \frac{1}{6}\right)$
- Q7. Verify the following properties and name them for a = 4, b = - 7 and c = - 9
- $a \times (b \times c) = (a \times b) \times c$
  - $a \times (b + c) = a \times b + a \times c$
  - $(b - c) \times a = b \times a - c \times a$

Q8. Solve for  $x$  :

i)  $\frac{2x+3}{3+x} = \frac{5}{2}$

ii)  $\frac{x-1}{2} = 1 - \frac{3x-12}{3}$

iii)  $9x - \left(2x + \frac{5}{2}\right) = \frac{5}{2}$

iv)  $\frac{3}{2x+1} = \frac{5}{7x-2}$

Q9. Round off the following numbers as indicated-

i) 1.345, correct to 2 decimal places

ii) 1.2567, correct to 3 decimal places

iii) 3.2137, correct to tenth place

iv) 0.004957, correct to thousandth place

Q10. The sum of two numbers is 90. The greater number is 10 less than 3 times the smaller number. Find the numbers.

Q11. Radha gets Rs 17480 as her monthly salary and over time. Her salary exceeds the overtime by Rs 12000. What is her monthly salary?

Q12. If the cost of 16.5 m of cloth is Rs 2070.75, find the cost of 23.2 m of cloth.

Q13. Multiply :

i)  $42.65 \times 0.92$

ii)  $6.934 \times 31.1$

Q14. Divide :

i)  $23.115 \div 1.034$

ii)  $9234.5 \div 35.6$

Q15. Convert the following fractions into recurring decimals-

i)  $\frac{17}{11}$

ii)  $\frac{5}{3}$

iii)  $\frac{1}{6}$

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**Subject - Geography**  
**Summer Holiday Assignment (2024-25)**  
**Class 7**

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**(I) Complete the following table:**

Element of Weather	Measuring Instrument	Measuring Unit
1) Temperature.	_____.	_____
2) _____.	_____.	millibar
3) _____.	Rain gauge.	_____
4) Wind speed.	_____.	_____.
5) Relative humidity.	_____.	_____.

**(II) Fill in the blanks:-**

- The atmosphere is held to the earth due to the \_\_\_\_\_.
- Temperature of the atmosphere decreases with height at rate of about \_\_\_\_\_.
- The amount of water vapour present in the atmosphere is called \_\_\_\_\_.

**(III) Define the following terms:**

- Isotherms
- Meteorology
- CFCs
- Dew point
- Isobars
- Coral reef
- Exfoliation

**(IV) Thought provoking questions:**

- Why do the land breeze not blow during daytime?
- Why do peacocks start dancing when they see thick, dark and black layered clouds in the sky? What is the reason behind this behaviour?
- Why mountain climbers use oxygen cylinders during climbing high mountains?
- Why diurnal range of temperature is high in desert region?

**(V) Study the given table and answer the following questions:**

Month →	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Temperature(°C)	24.4	24.4	26.7	28.3	30.0	28.9	27.2	27.2	27.2	27.8	27.2	25.0
Rainfall (cm)	0.2	0.2	-	-	1.8	50.6	61.0	36.9	26.9	4.8	1.0	-

- Which are the hottest and the coldest months?
- Which are the driest and the wettest months?
- What is the total rainfall in cm?
- Suggest the location of place?
- What is the diurnal range of temperature?

1- **Assertion (A):** Rocks are very strong and can last forever.

**Reason (R):** Weathering processes can slowly break down rocks over time.

- a) Both A and R are false.
- b) A is false, but R is true.
- c) A is true, but R is false.
- d) Both A and R are true, but R is not the only explanation of A.

2. **Assertion (A):** Deforestation can accelerate soil erosion.

**Reason (R):** Trees help to hold soil particles in place with their roots.

- a) Both A and R are true, and R is the correct explanation of A.
- b) Both A and R are true, but R is not the only explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true.

3. **Assertion (A):** It's important to conserve soil.

**Reason (R):** Soil takes a long time to form naturally.

- a) Both A and R are true, and R is the explanation of A.
- b) Both A and R are true, but R is not the only explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true.

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Current Affairs (April, 2024)

1. Amitabh Chaudhary has been reappointed as MD and CEO of Axis Bank.
2. In Netherlands, the 26<sup>th</sup> World Energy Congress was organized from 22-25 April, 2024.
3. Usain Bolt has been appointed as the brand ambassador of ICC Men's T20 World Cup 2024.
4. Prabowo Subianto has been appointed as the new President of Indonesia.
5. The Archery World Cup 2024 stage 1 was organized in Shanghai, China. India finished it with eight medals- five gold, two silver and one bronze.
6. C-DOT (Centre for Development of Telematics) and IIT, Jodhpur signed an agreement for "Automated Service Management in Network of 5G and beyond using AI".
7. Yuzvendra Chahal became the first bowler to take 200 wickets in IPL history.
8. Max Verstappen recently won the title of Shanghai Grand Prix 2024.
9. Professor Naima Khatoon has been appointed as the first woman Vice Chancellor of Aligarh Muslim University.
10. GMR Hyderabad International Airport won the Skytrax Award 2024 for 'Best Airport Staff'.
11. On April 16, 2024, Varanasi's 'Tricolour Barfi' known for its historical significance and unique ingredients received the prestigious GI tag.
12. Dinesh Kumar Tripathi has been appointed as the next Chief of the Indian Navy.
13. DRDO successfully test fired Indigenous Technology Cruise Missile (ITCM) off the coast of Odisha.
14. Indian institute of Astrophysics played an important role in Shri Ram 'Surya Tilak' program in Ayodhya.
15. Sheikh Ahmed Abdullah Al-Ahmad Al-Sabah has become the new Prime Minister of Kuwait.
16. Sunrisers Hyderabad broke its own record of the highest team score in the IPL history.
17. Himanchal Pradesh Cricket Association (HPCA) stadium in Dharamsala is the first stadium in India to use hybrid pitch technology.
18. KSTAR, which stands for Korea Superconducting Tokamak Advanced Research, is a nuclear fusion reactor in South Korea, often referred to as an "Artificial Sun". It's a magnetic fusion device designed to achieve controlled nuclear fusion, the same process that powers the sun and stars. It sets record for sustaining plasma at 100 million degree Celsius which is seven times that of the Sun's core.
19. Tamil Nadu Governor, R.N. Ravi, inaugurated the Param Vir Chakra Garden at Kanchi Mahaswami Vidya Mandir in Tambaram, showcasing statues of the 21 awardees.
20. India's Bharat 6G is on the verge of finalizing a Memorandum of Understanding (MoU) with Europe's Industry Alliance 6G.

Important Days

1. World Health Day – 7 April
2. World Art Day – 15 April
3. World Heritage Day – 18 April
4. World Earth Day - 22 April
5. World Book and Copyright Day - 23 April