

Dear Students & Parents,

Greetings!!!

As we celebrate the triumph of good over evil, it is time to rejuvenate, spend quality time with loved ones, and return with a renewed spirit of curiosity.

The school will remain closed for the **Autumn Break** from **16th Oct-25th Oct 2026**. Normal classes will resume on their regular timings from **26th Oct 2026 onwards**.

Wishing you and your families a joyous, safe, and blessed Vijayadashami!

May the festival of Dussehra inspire you with the strength to overcome challenges and always choose the path of truth, righteousness, and learning.....

To keep our students constructively engaged and practiced during this short vacation, we have curated subject oriented holiday homework. These activities are designed to balance festive celebrations with creative learning.

Regards

Principal

DLSK

DEFENCE LABORATORIES SCHOOL, KANCHANBAGH

CLASS VIII - HOLIDAY HOMEWORK

SUBJECT: MATHEMATICS

I. ANSWER THE FOLLOWING QUESTIONS

1. Find the squares of the following numbers: (a) 26 (b) 45 (c) 100
2. Find the cubes of the following numbers: (a) 7 (b) 18 (c) 40
3. Find: (a) $\sqrt{361}$ (b) $\sqrt{2025}$ (c) $\sqrt[3]{729}$ (d) $\sqrt[3]{1000000}$
4. Express the following numbers in exponential form: (a) 9604 (b) 2645 (c) 3136 (d) 6400
5. Find the length of the side of a square whose area is 1225.
6. Evaluate:
(a) $6^2 \times 6^5 \times 6^9 \times 6^6$
(b) $(5^6)^7$ (c) $(7^9)^{-6}$
(d) $(5/8)^{-7} \times (8/5)^{-5}$
(e) $[(25)^2 \times 5^9 \times 10 \times 16] / [(15)^2 \times (20)^3]$
7. Identify the greater number in each pair: (a) 2^5 or 3^3 (b) 7^2 or 2^7 (c) 10^2 or 2^{10}
8. Find the value of m for which $7^m \div 7^{-4} = 7^{10}$.
9. Check the parity of the given algebraic expressions: (a) $2x + 3y$ (b) $4a - 8b$ (c) $x^3 + 1$
10. Find a few numbers that leave a remainder of 2 when divided by 3 and a remainder of 2 when divided by 4. Write an algebraic expression to describe all such numbers.

II. SOLVE THE FOLLOWING

11. Check the divisibility by 9 of the following: (a) 5473 (b) 73710 (c) 999999 (d) 57A9544. What is the value of A?
12. Check the divisibility by 11 of the following: (a) 54673894 (b) 62039528 (c) 64429710
14. Find the digital root of: (a) 447865 (b) 78304 (c) 8765
15. Multiply:

(a) $(-2x)(6xyz)$

(b) $3a(-5x + 6y)$

(c) $-(4xy)(-5xy)$

(d) $(3a + 5y)(4a - 7y)$

(e) $(a + 2)(b - 3)$

(f) $(-6a - b)(c + d)$

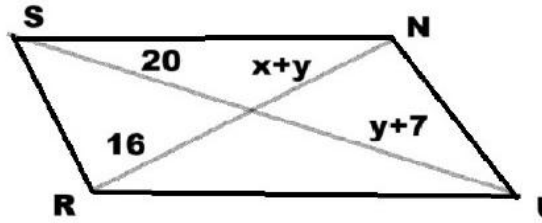
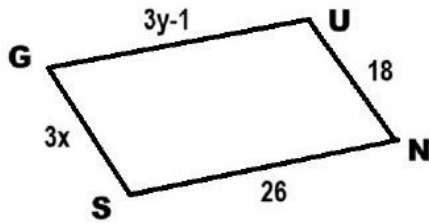
(g) $-7x^2yz(6x^2 + 4xyz - 3xy^3z + 7)$

16. ABCD is a rectangle. Its diagonals meet at O. Find x, if $OA = 2x + 4$ and $OD = 3x + 1$.

17. The measures of two adjacent angles of a parallelogram are in the ratio 3:2. Find the measure of each angle.

18. The figures GUNS and RUNS are parallelograms.

Find x and y (lengths are in cm).



19. Practice all the properties of quadrilaterals.

20. Read and write multiplication tables from 1 to 20 (twice).

विषय – हिंदी

कक्षा 8

- 1-अपनी दशहरे की छुट्टियों के अनुभवों को डायरी के रूप में लिखिए।
- 2-"जल ही जीवन है" विषय पर एक आकर्षक पोस्टर बनाकर पाँच नारे लिखिए।
- 3-अपनी कल्पना से एक कहानी लिखिए, जिसका शीर्षक हो— "सत्यमेव जयते"।
- 4-दस मुहावरों के अर्थ लिखकर उनका वाक्यों में प्रयोग कीजिए।
- 5-अपनी पाठ्यपुस्तक की प्रसिद्ध हिंदी कवि "महादेवी वमा का चित्र चिपकाकर उनका जीवन-पं रचय लिखिए।

Class : 8

TB pg no :73 *

1. సృజనా తృకత /ప్రశంస (A4sheet)

2. TB pg no :76 భాషా క ర్యకలా పా లు / ఖేదజ్ఞా పని. (Chart)

कक्षा 8

संस्कृत द्वितीयभाषा

1. अन्तजालात् पुस्कतेभ्यश्च पञ्च सुभाषितानां सङ्ग्रहंकुरुत
2. कम्पि चित्रं अकथ्य पञ्चवाक्यानि संस्कृतेन लिखत ।

Class 8 English HW

1. Write a diary entry “A day you helped someone in need”. (100- 120 words)
2. Write a letter to your grandparents thanking them for the valuable lessons they have taught you. Include how their wisdom has shaped your values and behaviour in life.
3. Write a descriptive essay for your school magazine describing anything from nature that attracted your attention. It maybe an object, a place or an event experienced by you. Remember to give a title to your essay.(150- 200 words)



Autumn is a second spring when every leaf is a flower.” — Albert Camus

☐ Remember, holidays are not just for resting but also for **learning in fun and creative ways!** ☐

Observe the world around you, ask questions, try simple experiments, read something interesting, and discover the science hidden in everyday life.

Make sure you complete all the assigned holiday homework neatly and sincerely, without waiting until the last minute.

☐ **Enjoy your holidays, learn something new every day, and return to school refreshed, happy, and ready to shine!** ☐

Integrated Learning: Physics of Light & Ecological Harmony

General Instructions: Students must complete **ONE** project from **Part 1** and **ONE** project from **Part 2**. All projects are designed to be completed using household or easily available materials.¹

PART 1

OPTION A -The Solar Water Bottle Bulb (Refraction Model)

- **What to do:** Build a shoe-box model representing a dark windowless room. Cut a small hole in the top lid and securely fit a clear plastic bottle filled with clean water (and a drop of liquid soap/bleach).
- **How it works:** Place the top of the bottle under direct sunlight or a single point light source outside the box. Observe how light refracts 360° through the water inside the dark room.
- **What to submit:** Physical shoe-box model + A 1-page Science Note explaining *refraction of light* with a neat ray diagram.

OPTION B The Mirror Light Pipe (Reflection Model)

- **What to do:** Construct a shoe-box room model. Using small pocket mirrors or cardboard tubes lined with aluminium foil, create a pathway to bounce incoming natural light around corners into the dark box.
- **How it works:** Demonstrates that light travels in straight lines and can be redirected using the law of reflection (*Angle of Incidence i = Angle of Reflection r*).
- **What to submit:** Physical shoe-box model (or a 1-minute video showing light propagation) + A 1-page Science Note explaining *reflection of light*.

Part 2: Biology — "Harmony in Nature"

Objective: Illustrate ecological interdependence, food web relationships, or natural balance through creative expression.

OPTION 1 Stop-Motion Animation Video (30–60 Seconds)

What to do: Use clay, paper cutouts, Lego, leaves, or toys. Frame by frame, take photos while moving your characters slightly to make a moving animation clip using free apps like ***Stop Motion Studio***.

- **Topic Ideas:** Pollinators aiding seed formation, forest decomposers recycling nutrients, or predator-prey dynamics maintaining ecosystem balance.

What to submit: Exported MP4 video clip + A 1-page storyboard/sketch plan.

OPTION 2 Puppet Show Video (1–2 Minutes)

- **What to do:** Create simple stick puppets, finger puppets, or sock puppets. Record a short puppet play performed with a classmate, sibling, or family member.
- **Topic Ideas:** A dialogue between natural elements (e.g., *The Tree*, *The Earthworm*, and *The Rain Cloud*) sharing how they support each other.

What to submit: Video recording + A 1-page written script of the play.

OPTION 3 Comic Strip / Short Comic Book (6-Panel Story)

- **What to do:** Create a 1-page comic strip or multi-page comic mini-book illustrating ecological balance and interdependence. Draw panels by hand on an A4 sheet or chart paper using colour pencils/sketch pens, or design it digitally.
- **Topic Ideas:** Pollination, decomposition, nutrient cycling, or the water cycle working together in a forest ecosystem.

What to submit: A finished 1-page Comic Strip (or multi-page booklet) + A 1-page Science Note explaining the ecological relationships shown in your panels.

Social Science

On a world political map

1. Mark Different Continents and Oceans
2. Mark important mountains of the world. (Himalaya, Andes,Ural, Appalchian)
3. locate major rivers of the world.
 - A) The longest river in the world?
 - B) The longest river basin in South American continent
4. List and mark the countries that are part of the European plain.

5. Locate Cold and Hot deserts in the world map.

(Ladakh, Thar, sahara, Australian Desert