

Subject	Homework
English Language	<ul style="list-style-type: none"><li>➤ Read the newspaper regularly. Pick out random headlines (4 to 5) and rewrite them in your own creative way changing at least two words on an art sheet.</li><li>➤ Do book chapters 1 and 2.</li></ul>
English Literature	<ul style="list-style-type: none"><li>➤ Read the Reader chapter 'Journey to the centre of the Earth' from Page no. 1 to 20.</li><li>➤ Prepare for the Literature Unit test.</li></ul>
Hindi Language	<ul style="list-style-type: none"><li>➤ हिंदी भाषा की पुस्तिका में योग से संबंधित महत्वपूर्ण जानकारी लिखिए तथा पाँच योगासनों के नाम, चित्र सहित लिखिए तथा प्रत्येक योगासन के लाभ भी बताइए।</li></ul>
Hindi Literature	<ul style="list-style-type: none"><li>➤ दिए गए राष्ट्रीय प्रतीकों के बारे में जानकारी एकत्र करिए तथा हिंदी साहित्य की पुस्तिका में चित्र सहित प्रत्येक पर चार से पाँच पंक्तियाँ लिखिए - राष्ट्रीय ध्वज, राष्ट्रीय पशु, राष्ट्रीय पक्षी, राष्ट्रीय पुष्प, राष्ट्रीय फल।</li></ul>
Mathematics	<ul style="list-style-type: none"><li>➤ Solve the given worksheet in the comment sheets provided.</li></ul>
Physics	<ul style="list-style-type: none"><li>➤ Find the time period of a simple pendulum (Given length of string 90 cm, 80 cm, 70 cm, 60 cm and 50 cm).</li></ul>
Chemistry	<ul style="list-style-type: none"><li>➤ Make a list of 10 chemicals which you use in your daily life.</li><li>➤ Paste at least five materials in your class notebook.</li></ul>
Biology	<ul style="list-style-type: none"><li>➤ Grow roots of two onions in water. Remove the meristematic tissue from the root tip of one onion and keep the other unchanged. Observe and compare the growth in both onions. Click your photographs (before and after) with the experiment and paste them in your biology notebook along with the observations.</li></ul>
History / Civics	<p><b>Scrap Book Holiday Home-work on A-4 size paper sheets-</b> <b>Topic → Rise and Spread of Christianity</b> The scrapbook should be of 4-6 pages covering the following titles/headings:</p> <ol style="list-style-type: none"><li>1. Introduction to Christianity</li><li>2. Jesus Christ and his teaching</li><li>3. Christian Symbols</li><li>4. Festivals of Christianity</li><li>5. Value we learn</li><li>6. Last page → Conclusion</li></ol> <p>Decorate with → Glitter stars, border design [simple] and peace symbols.</p>

**Dr. Virendra Swarup Education Centre, Avadhपुरi, Kanpur**  
**Summer Holiday Assignment (2026-27)**  
**Class – 7**

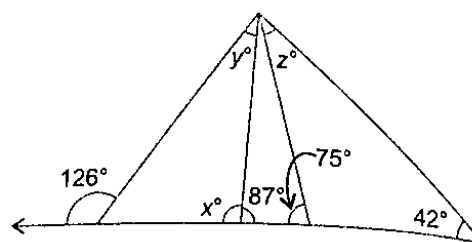
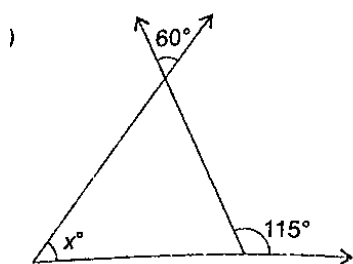
<b>Subject</b>	<b>Homework</b>
<b>Geography</b>	<ul style="list-style-type: none"><li>➤ Find out where landslides are most common in India. Collect photos and information. Write a report equipped with the photograph and the content in brief. (Do it in the Geography notebook)</li><li>➤ Revise chapter 2, 3 and 4 for July Test.</li></ul>
<b>Computer Science</b>	<ul style="list-style-type: none"><li>➤ Complete the given work sheet and paste it in your computer notebook.</li></ul>
<b>Art</b>	<ul style="list-style-type: none"><li>➤ Complete the given craft.</li></ul>

**Dr. Virendra Swarup Education Centre, Avadhपुरi, Kanpur**  
**Mathematics Holiday Worksheet (2026-27)**  
**Chapters: Integers, Linear Equations in one variable and Triangles**

Class: 7

**Section - A**

- Q1. Find the value of:  $-3 - (-7) + (-5)$ .
- Q2. Find the value of:  $6 + 8 + (-12) - (-4)$ .
- Q3. Evaluate:  $\{110 \div 11\} \div \{(-2) \times (-50)\}$ .
- Q4. Evaluate:  $\{49 + 63 - 14\} \div \{(-1) \times 7\}$ .
- Q5. Subtract the sum of  $(-23)$  and  $54$  from the sum of  $(-11)$ ,  $(-13)$  and  $(-21)$ .
- Q6. Divide  $(-1000)$  by  $(-50)$  and to the quotient add the product of  $(-13)$  and  $(-17)$ .
- Q7. The number is multiplied by 2, and 8 is added to the product, the result is 50. Find the number.
- Q8. The sum of two numbers is 64, and the second number is 16 less than first. Find the numbers.
- Q9. A number is divided into two parts such that one part is 10 more than the other. If the two parts are in the ratio 5:3 find the number and the two parts.
- Q10. A man is 27 years older than his son, and in 10 years from now he will be twice as old as his son. How old is each now?
- Q11. Of the three angles of a triangle, one is twice the smallest and the other is three times the smallest. Find the angles.
- Q12. In an isosceles triangle each of the base angles is twice the vertical angle. Find all the angles of the triangle.
- Q13. Can 3 cm, 9 cm and 5 cm represent the sides of a triangle? Show why?
- Q14. Find the measure of each of the two equal angles of an isosceles right-angled triangle.
- Q 15. Calculate the size of each lettered angle in the following figures:



**Section-B**

**Comprehension Based Questions:**

**1. Designing Triangular Roof Structures**

Triangles are commonly used in engineering designs for roof structures due to their stability and strength. The table below shows different roof designs and the types of triangles used in their construction. Study the table carefully and answer the questions that follow.

Roof Design	Type of Triangle	Properties
A-frame Roof	Isosceles Triangle	Two equal sides, one unequal side
Truss Roof	Right-angled Triangle	One angle is $90^\circ$ , hypotenuse opposite the right angle
Pyramid Roof	Equilateral Triangle	All three sides and angles are equal

### Questions:

- I. If the sides of an A-frame Roof triangle are 5 m, 5 m and 6 m calculate its perimeter.
- II. For a Pyramid Roof with the side lengths of 4 m, find the perimeter.
- III. If the base of the Truss Roof is 6m and its height is 8m, calculate the hypotenuse using the Pythagoras theorem.
- IV. In an A- frame Roof, the vertical angle is  $30^\circ$  greater than each of its base angles. Find all the angles.

### **2. Temperature Changes in Weather**

Linear equations can be used to predict temperature changes based on scientific data. The table below shows the temperature variation in a city during a week, modeled as linear equations. Study the table carefully and answer the questions that follow.

Days	Linear Equation( $^\circ\text{C}$ )
Day 1	$T = 2x + 5$
Day 2	$T = 3x - 2$
Day 3	$T = -x + 10$
Day 4	$T = 4x - 3$

### Questions:

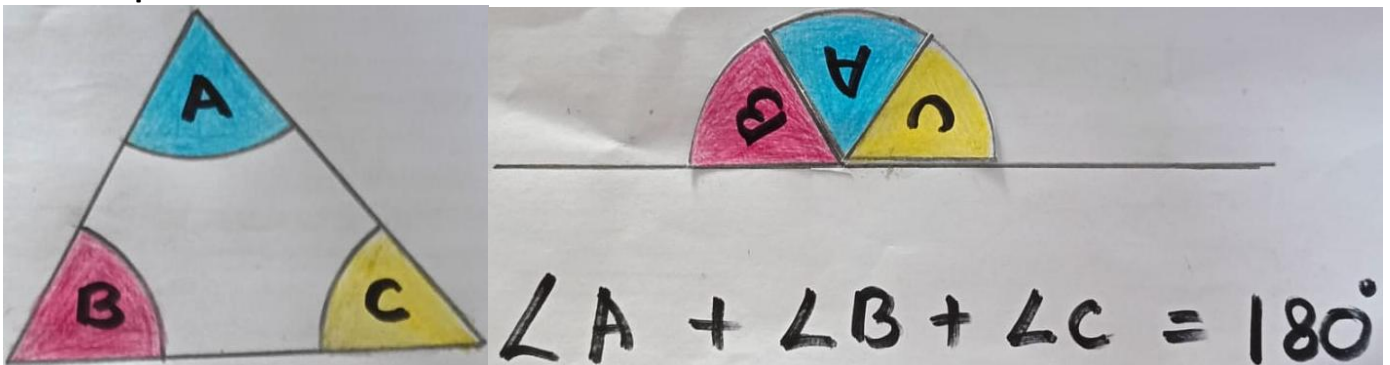
- I. Calculate the temperature on Day 1.
- II. If the city experiences an additional  $3^\circ\text{C}$  drop on Day 3, rewrite the equation to reflect the new temperature model.
- III. Using the equation for Day 4, predict the temperature.
- IV. If there is sudden increase of  $5^\circ\text{C}$  on Day 1, rewrite the equation to reflect the new temperature model.

### Section - C

#### ACTIVITY

To verify sum of the interior angles of a triangle is  $180^\circ$  with the help of paper cutting activity.

**For Example:**



**Class – 7 Summer Holiday Homework**

**(Reasoning worksheet)**

Q1. If **APPLE** is coded as ELPPA, then **MANGO** will be coded as –

- a) OGNAM      b) OGMAN  
c) NAMGO      d) MOGAN

Q2. If **DOG** = 4157, **CAT** = 3120, then the code for **GOAT** is –

- a) 71520      b) 75120  
c) 15720      d) 75210

Q3. In the code language, **BOOK** is written as **CPPL**. How will **PEN** be written?

- a) QFO      b) QEN  
c) RFO      d) ODM

Q4. If **SUN** is coded as **TVO**, then **MOON** will be coded as –

- a) NPPO      b) NPPQ  
c) NQPP      d) MPPO

Q5. If **RED** = 27, **BLUE** = 40, then **GREEN** = ?

- a) 45      b) 50      c) 49      d) 72

Q6. Arrange the following in meaningful order –

**1. Seed      2. Fruit      3. Plant      4. Flower**

- a) 1,3,4,2      b) 1,4,3,2  
c) 3,1,2,4      d) 2,4,3,1

Q7. Arrange the following according to size (smallest to biggest) –

**1. Pond      2. Ocean      3. River      4. Stream**

- a) 4,1,3,2      b) 1,4,2,3  
c) 4,3,1,2      d) 3,1,4,2

Q8. Arrange in logical order –

**1. Buying      2. Selection      3. Payment      4. Packing**

- a) 2,1,3,4      b) 1,2,4,3  
c) 2,3,1,4      d) 1,3,2,4

Q9. Arrange the following words in **dictionary order** –

**1. Mango      2. Market      3. Man      4. Manager**

Q10. Find the **odd one out and give reason** –

- a) Bus      b) Train  
c) Aero plane      d) Bicycle

Q11. Find the odd one out –

1. a) Rose      b) Lotus  
    c) Carrot      d) Lily
2. a) Doctor      b) Teacher  
    c) Engineer      d) Hospital
3. a) January      b) March  
    c) Sunday      d) December
4. a) Square      b) Triangle  
    c) Rectangle      d) Banana
5. a) Lion      b) Tiger  
    c) Leopard      d) Sparrow

Q12. Choose the **pair that is different** from the others –

1. a) Dog : Bark  
    b) Cat: Meow  
    c) Cow: Milk  
    d) Lion: Roar
2. a) Rose: Flower  
    b) Mango: Fruit  
    c) Carrot:Vegetable  
    d) Table: Chair
3. a) Pen: Ink  
    b) Car: Petrol  
    c) Fan: Electricity  
    d) Cup: Water

Q13. Complete the following –

1. January, March, May, \_\_\_\_\_
2. Red, Blue, Green, \_\_\_\_\_
3. AZ, BY, CX, DW, \_\_\_\_\_
4. C, F, I, L, \_\_\_\_\_
5. Z, X, V, T, \_\_\_\_\_
6. 81, 72, 63, 54, \_\_\_\_\_
7. 50, 45, 40, 35, \_\_\_\_\_