



# St. Vivekanand Public School, Sadabad

## Summer Holiday Home Work for 2024-25

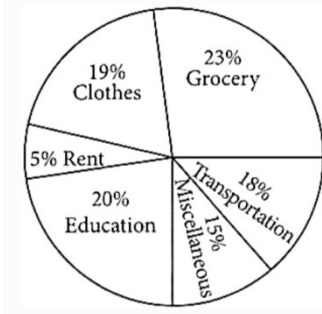
### Class -X

#### Note:

1. Untidy and incomplete work will not be accepted.
- 2- School will re-open on 1<sup>st</sup> July 2024.
- 3- You can download this holiday homework from our **website - svpssadabad.org**

#### ENGLISH

- 1- Write summary of the following chapters in about 250 - 300 words:
  - (a) From The Diary of Anne Frank
  - (b) The Thief's Story
  - (c) A Tiger in the Zoo (100 words)
- 2- The given pie chart represents the amount of money spent by a family on different items in a month. Write an analytical paragraph using the information given in the chart.



- 3- Learn and prepare all syllabus which has completed  
**Note** Do all the work in your English Project File.

#### HINDI

1. 'स्मार्ट क्लास की उपयोगिता' विषय पर 150 शब्दों में अनुच्छेद लिखिए ।
2. टूथपेस्ट बनाने वाली कम्पनी के लिए एक सुंदर और आकर्षक विज्ञान लगभग 60 शब्दों में तैयार कीजिए ।
3. संघलोक सेवा आयोग की प्रशासनिक सेवा परीक्षा प्रतियोगिता में चयन हो जाने पर बड़ी बहन को लगभग 60 शब्दों में बधाई संदेश लिखिए ।
4. मोहित की ओर से नगर निगम अधिकारी को ई-मेल लिखिए जिसमें लाउड स्पीकर बंद कराने का अनुरोध किया गया हो ।
5. नगर की स्वच्छता के लिए सफाई कर्मचारी की आवश्यकता है 15 मई 2023 को दैनिक हिन्दुस्तान में छपे विज्ञापन के अनुसार आप अपना स्ववृत्त प्रस्तुत करते हुए आवेदन कीजिए
6. अपने भविष्य के बारे में आपके क्या विचार हैं और इस दिशा में आप क्या कर रहे हैं यह स्पष्ट करते हुए अपने पिताजी को पत्र लिखिए ।

**नोट-** ये सभी कार्य Assignment notebook में करना है ।

## SCIENCE

Prepare notebook of life process.

Solve 0100 MCQ problem & subjective question of life process.

Solve NCERT exercise of Chapter 1 & Chapter Light (Reflection portion only). Chemical reaction and life process in biology and all Index questions of both chapters also in fair note book and revise the chapters for test.

## SOCIAL SCIENCE

1.
  - (i) Explain the process of unification of Italy and Germany.
  - (ii) Explain the term conservatism.
  - (iii) Explain with special reference to Europe and describe in brief any four feature of Vienna treaty of 1815?
  - (iv) Who were Marianne and Germania and what was the importance of the way in which they were portrayed and write four differences between Imperialism and Nationalism. (History)
2.
  - (i) Describe Alluvial soil, Black soil, Forest soil, Mountain soil, and Red & Yellow soil, under the following heads:  
a. Formation      b. Distribution      c. Classification      d. Nutrients
  - (ii) Discuss the purpose of Rio De Janeiro Earth Summit and Agenda 21. (Geography)
3.
  - (i) Describe the ethnic composition of Belgium and Sri Lanka.
  - (ii) What was the reasons and effects of the civil war in Sri Lanka?
  - (iii) What are the different forms of power sharing in the modern democracies. Explain.
  - (iv) Define majoritarianism.
  - (v) Explain the difference between horizontal and vertical division of power. (Civics)
4.
  - (i) What is the development?
  - (ii) Explain four characteristics of development?
  - (iii) What is the difference between public and private sector?
  - (iv) Analyze the difference between organized and unorganized sector?
  - (v) Give examples to prove that there are other important development goals than income?
  - (vi) Classify the various economic activities in your surroundings into primary, secondary and tertiary sectors. How do these sectors affect the GDP of the country?
  - (vii) Primary sector is the highest employment giving sector while tertiary sector contributes the most in country's GDP. Comment. (Economics)

**Note: All the work to be done in assignment notebook.**

## Artificial Intelligence

- Watch any movie about artificial intelligence or robotics. Prepare a promo-trailer of the movie.
- trailer should be in video file format

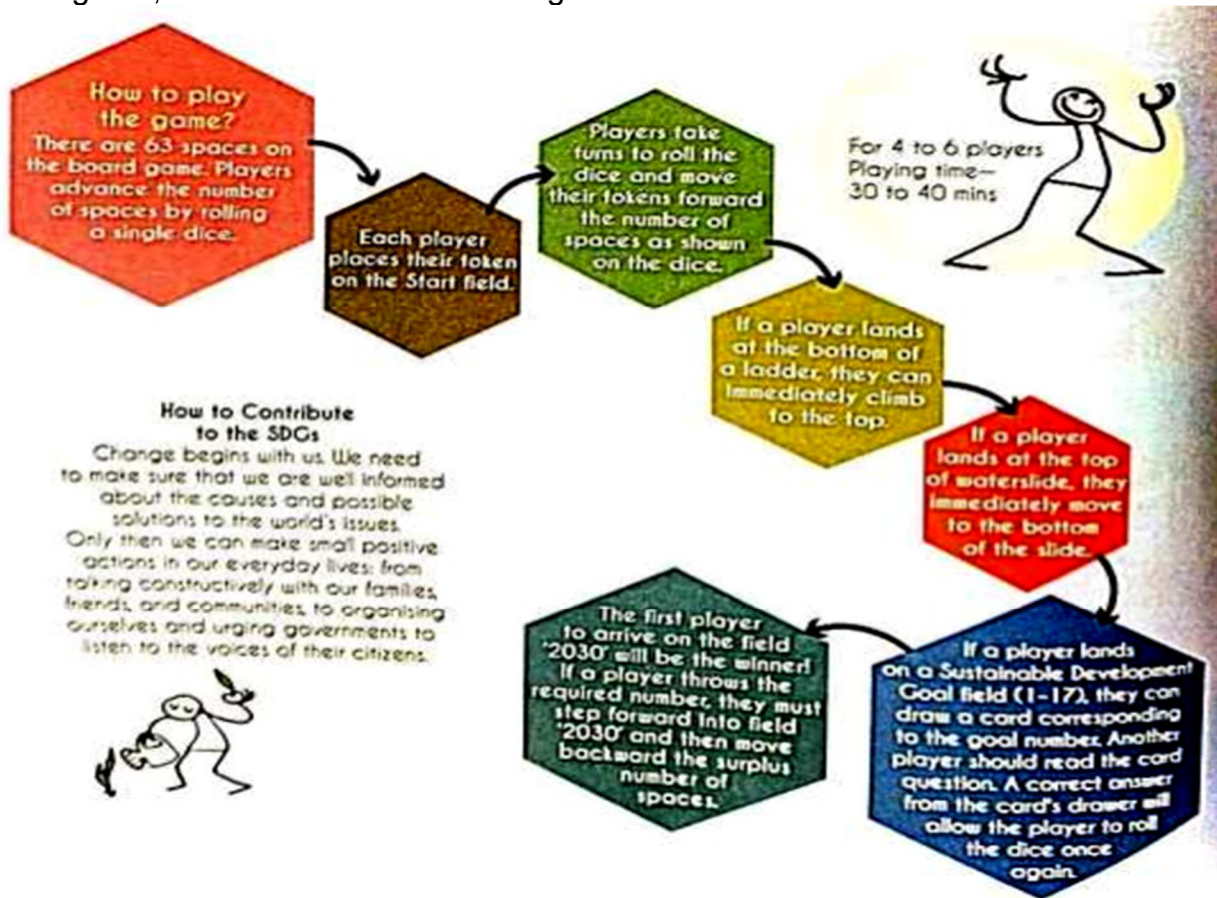
- use any software to make the trailer
- Any clip from the movie may be used
- Any sound track may be used
- The duration of the clip should be 1-1.5 minutes.
- Students will have to create their own composition.
- Students are allowed to pick material from external sources, but have to mention the source name.
- The final artwork should not be NSFW
- Plagiarism should be a definite criterion for disqualification.

**NOTE: Submission in soft copy. Email the soft copy at: [comp.deptt.svps@gmail.com](mailto:comp.deptt.svps@gmail.com)  
(Subject of mail should contain your name, class and section)**

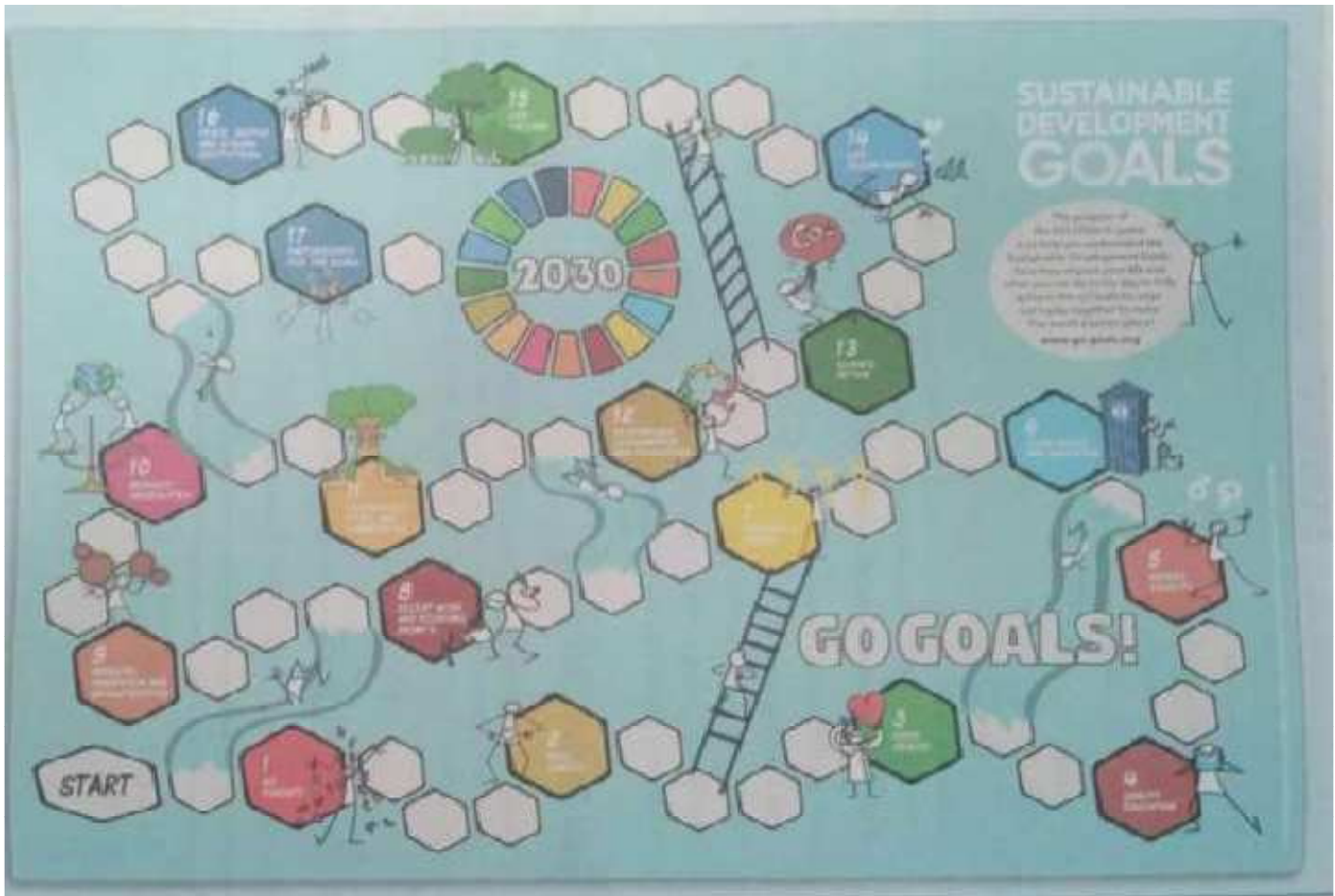
### **Go goals** – Board game

- The game aims to help teach the students around the world about the Sustainable Development Goals in a simple and child-friendly way.
- It helps the students understand their role in the future of this planet as individuals, team players, and most importantly, as responsible global citizens.
- In order to build a better world for everyone, the member states of the United Nations have agreed to do their utmost to achieve 17 Sustainable Development Goals (SDGs) by 2030.
- Designed to be fun and engaging, the game not only informs the students, but also motivates them to actively pursue the SDGs. Your role as a teacher is crucial. With the help of people like you, family friends, and community, we will be able to achieve the goals.

**Remember:** Even small steps can make a big difference if millions around the world are involved! We hope that you enjoy game! You are invited to download it. After downloading the game, follow the instructions and given below:



**NOTE: Submission of this question in hard copy format  
Everyone should plant at least one tree.**



Think about any decision making problem related with everyday life (example: you want to join a cricket academy but does not have enough money to pay for coaching expenses). Follow the following prompts for solutions to a decision you are facing. Access each possible outcome and consequences then choose a solution. Check later and note the outcomes of your choices and Whether or not you are correct in your guesses. (Do this in Your AI register)

**Decision/ Problem:** \_\_\_\_\_  
\_\_\_\_\_

**SOLUTION 1:**

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**SOLUTION 2:**

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**SOLUTION 3:**

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**List 3 good things than can happen**

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**List 3 good things than can happen**

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**List 3 good things than can happen**

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**List 3 not good things than can happen**

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**List 3 not good things than can happen**

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**List 3 not good things than can happen**

\_\_\_\_\_  
\_\_\_\_\_  
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**The solution I will choose is:** \_\_\_\_\_

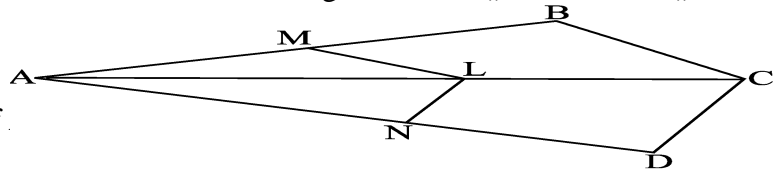
**The result of my choice is:** \_\_\_\_\_



**CLASS X MATHEMATICS**

1. State and prove the Basic Proportionality theorem. In the below figure, if  $LM \parallel CB$  and  $LN \parallel CD$ ,

prove that :  $\frac{AM}{AB} = \frac{AN}{AD}$



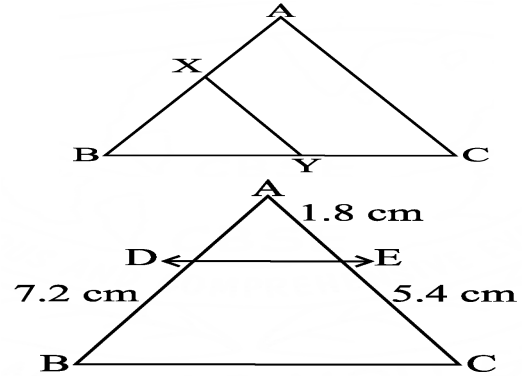
2. In triangle ABC,  $DE \parallel BC$  and  $\frac{AD}{DB} = \frac{3}{5}$ . If

3. A girl of height 90 cm is walking away from the base of a lamp post at a speed of 1.2m/s. If the lamp is 3.6 m above the ground, find the length of her shadow after 4 seconds.

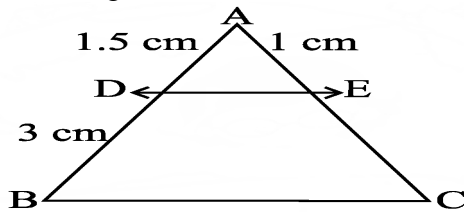
4. Diagonals of a trapezium ABCD with  $AB \parallel CD$  intersect at O. If  $AB = 2CD$ , find the ratio of areas of triangles AOB and COD.

5. Prove that the areas of two similar triangles are in the ratio of squares of their corresponding altitudes.

6. In the below figure, the line segment XY is parallel to side AC of  $\triangle ABC$  and it divides the triangle into two equal parts of equal areas. Find the ratio  $\frac{AX}{AB}$ .



7. In the below figure,  $DE \parallel BC$ , find EC



8. In the above right sided figure,  $DE \parallel BC$ , find AD.

9. In given figure  $\frac{AD}{DB} = \frac{AE}{EC}$  and  $\angle AED = \angle ABC$ . Show that  $AB = AC$

10.  $\triangle ABC \sim \triangle DEF$ , such that  $ar(\triangle ABC) = 64 \text{ cm}^2$  and  $ar(\triangle DEF) = 121 \text{ cm}^2$ . If  $EF = 15.4 \text{ cm}$ , find BC.

11. If a line intersects sides AB and AC of a  $\triangle ABC$  at D and E respectively and is parallel to BC,

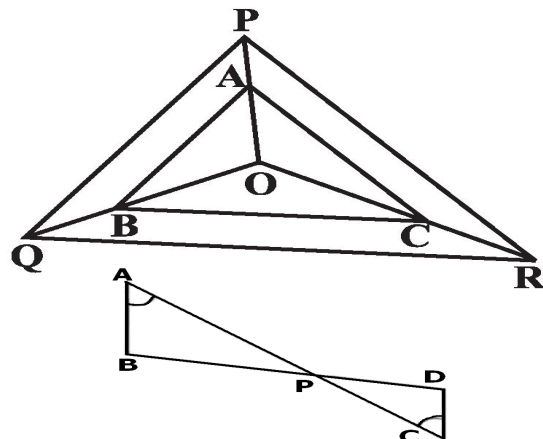
prove that  $\frac{AD}{AB} = \frac{AE}{AC}$

12. ABCD is a trapezium in which  $AB \parallel DC$  and its diagonals intersect each other at the point O.

Show that  $\frac{AO}{BO} = \frac{CO}{DO}$

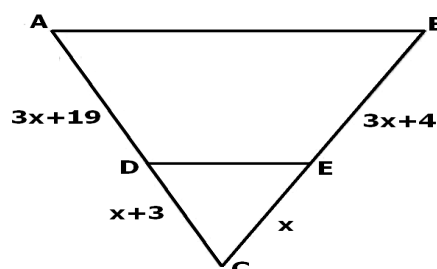
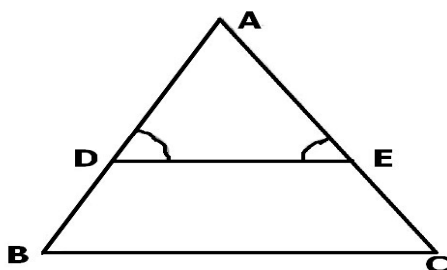
13. Using Thales theorem, prove that a line drawn through the mid-point of one side of a triangle parallel to another side bisects the third side.

14. In the below figure A, B and C are points on OP, OQ and OR respectively such that  $AB \parallel PQ$  and  $AC \parallel PR$ . Show that  $BC \parallel QR$ .



15. In the below figure, if  $\angle A = \angle C$ ,  $AB = 6 \text{ cm}$ ,  $BP = 15 \text{ cm}$ ,  $AP = 12 \text{ cm}$  and  $CP = 4 \text{ cm}$ , then find the lengths of PD and CD.

16. In the below Figure,  $\angle D = \angle E$  and  $\frac{AD}{DB} = \frac{AE}{EC}$ . Prove that BAC is an isosceles triangle.



17. Find the value of x for which  $DE \parallel AB$  in the above right sided Figure.