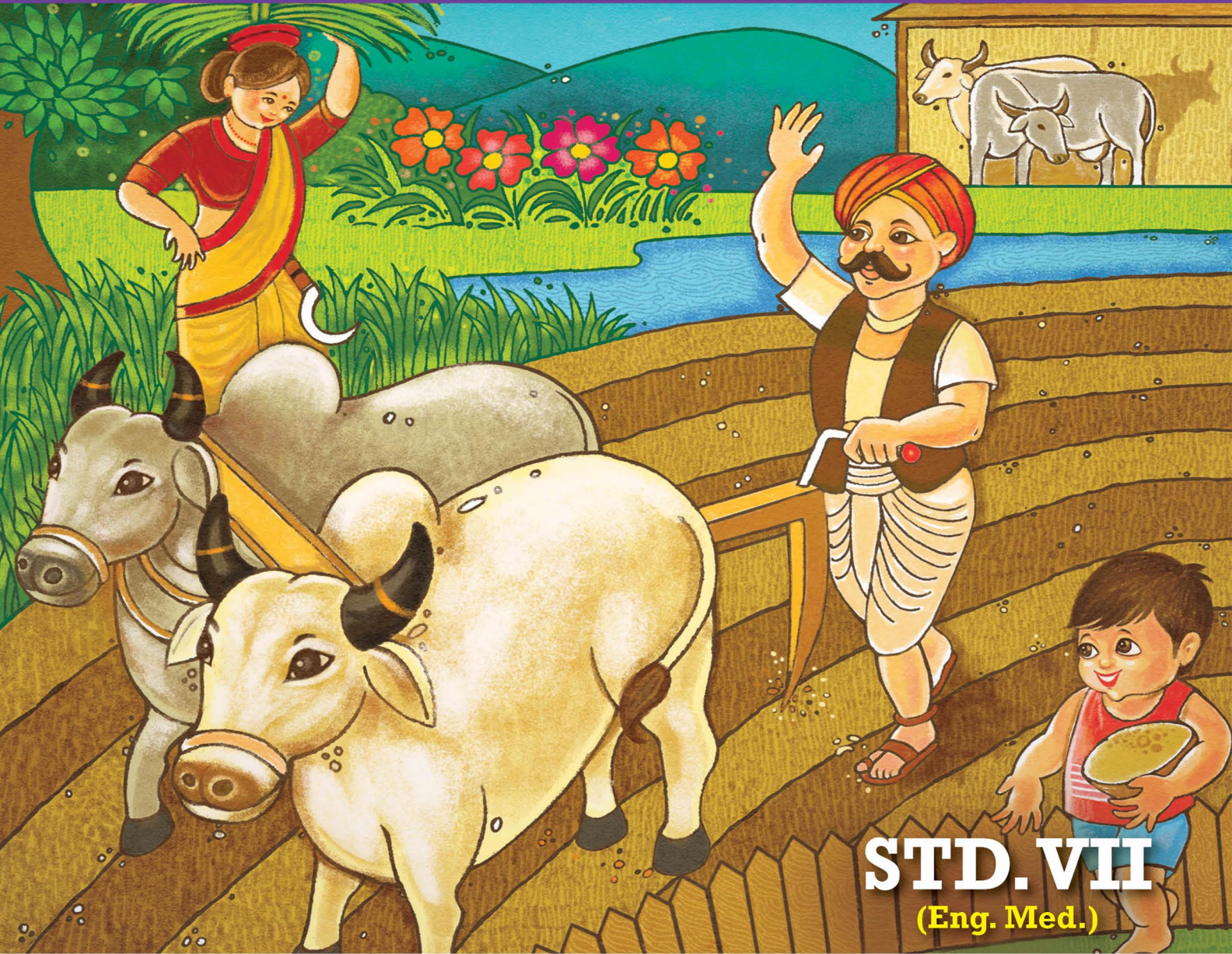


SAMPLE CONTENT



GEOGRAPHY

WORKBOOK



STD. VII
(Eng. Med.)

Target Publications® Pvt. Ltd.

Geography

WORKBOOK

Std. VII (English Medium)

Salient Features

- A Quick Revision of the lesson at the beginning of every chapter
- Variety of Questions for exhaustive practice
- Intext Questions section to widen knowledge spectrum
- Oral Test in every chapter for knowledge testing
- Activities/Projects that help in experiential learning
- Coverage of map based questions wherever deemed necessary
- Ample space provided for the students to write answers

Name:

School:

Standard:

Division:

Roll No.:

Printed at: **Print to Print**, Mumbai

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◆◆◆ PREFACE ◆◆◆

While designing the book, our main intention was to create a book that would act as a single point of revision and practice for students. We wanted this book to provide students, the much-needed practice for their textual questions as well as build up their knowledge quotient in the process.

Target's Geography Workbook : Std. VII has been prepared as per the 'Continuous Comprehensive Evaluation' (CCE) pattern which is more child-centric and focuses on active learning. It makes the process of education more enjoyable and interesting.

Our Geography Workbook comes replete with a Quick Recap of concepts, Summative Questions and Formative Questions. The goal of this book is to provide practice to students and to help them understand the concepts better.

Every chapter begins with **Let's Study**, the Point wise summary of the chapter. It follows by **Summative Assessment** which is divided into four sections – **Textbook Exercise, Intext Questions, Let's Practise** and **Oral Test**. All textual questions are covered in Textbook Exercise, whereas additional questions for practice are covered in Let's Practise section. Intext questions are included in Intext Questions section wherever necessary. Also questions based on the chapter are given for Oral Test, which can be useful to test the chapter knowledge of the students. In the **Formative Assessment** part, Activities/Projects are included. Ample space is provided to the students for writing answers.

The relevant questions from chapters are marked as **Open Ended Questions** and **Oral Work** to build the students' reasoning ability. We are trying to give better practise to understand the chapter through questions.

The journey to create a complete book is strewn with triumphs, failures and near misses. If you think we've nearly missed something or want to applaud us for our triumphs, we'd love to hear from you.

Please write to us at: mail@targetpublications.org

We hope this book helps students of Std. VII to prepare for their examination.

Publisher

Edition: Fourth

Disclaimer

This reference book is transformative work based on textbook of 'Geography; Fifth Reprint: 2022' published by Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune. We the publishers are making this reference book which constitutes as fair use of textual contents which are transformed by adding and elaborating, with a view to simplify the same to enable the students to understand, memorize and reproduce the same in examinations.

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◆◆◆ KEY FEATURES ◆◆◆

CCE pattern

Latest CCE pattern is followed in workbook, dividing the chapter into summative and formative section. This is a more child-centric approach and helps in overall growth and development of students.

Let's Study

In each chapter a concise summary has been provided which help students for quick revision.

Textbook Exercise

All textual questions are included in this section

Let's Practise

Various additional questions enable students to get better practice of the lessons and understand the concepts better.

Intext Questions

Some intext questions included to widen the knowledge spectrum of students.

Open Ended Questions

Some questions have more than one possible answer. Hence, questions marked as 'Open Ended Question' give students the freedom to answer these questions in a different manner on their own.

Oral Work

Some questions can be orally answered by students in the classroom. These questions, marked as 'Oral Work' can help build students' knowledge, skills and abilities.

Oral Test

Oral Test section includes questions that would stimulate the students to think and arrive at an answer based on their understanding of the concepts covered in the chapter.

◆◆◆ Contents ◆◆◆

No.	Topic Name	Page No.
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*Note: Textual Questions are represented by * mark.*

1. How Seasons Occur - Part 1

◆◆◆ Let's Study ◆◆◆

1. **Reason for occurrence of day and night:** The earth's rotation around its own axis is responsible for the occurrence of day and night on the earth.
2. **Rotation of the earth:** The earth rotates from west to east and takes 24 hours to complete one rotation around itself. Its rotation has enabled us to measure time in terms of days.
3. **Stages during a day:** We experience different stages like sunrise, midday, sunset as well as daytime and nighttime during a day.
4. **Duration of day and night:** The duration of the daytime and nighttime varies on different days.
5. **Sunrise and sunset:** The time of the sunrise and the sunset as well as its location on the horizon changes every day.

◆◆◆ Summative Assessment ◆◆◆

Intext Questions

1. Let's recall. (Textbook page no. 1)

(1) How do day and night occur on the earth?

Ans: _____

(2) What term is used to describe the earth's revolution around the sun?

Ans: _____

(3) How long does the earth take to do so?

Ans: _____

(4) In which hemispheres is our country located?

Ans: _____

(5) Why don't the sun's rays fall perpendicular at all the places on the earth?

Ans: _____



II. Think about it. (Textbook page no. 2) (Oral Work)

1. If the position of the shadow on the wall moves towards the north, in which direction does the location of sunrise or sunset appear to shift?

Ans: -----

Let's Practise!

I. Tick the correct option.

- 1. The earth's ----- enables us to measure time in terms of days.
 (A) rotation (B) surface (C) mass (D) distance
- 2. We experience different stages like sunrise, midday, sunset as well as daytime and nighttime during a single -----
 (A) year (B) day (C) month (D) hour

II. Right or Wrong ? If Wrong, write the correct sentence.

1. It takes 24 hours for the earth to rotate around itself.

Ans: -----

2. The earth rotates from east to west.

Ans: -----

3. The locations of the sunrise and sunset on the horizon keep on changing for the whole year.

Ans: -----

Oral Test

- 1. What is rotation of the earth?
- 2. What has enabled us to measure time in terms of days?
- 3. Name the direction in which the sun rises and sets everyday.

Teacher's Remark: ----- Date: -----

2. The Sun, the Moon and the Earth

◆◆◆ Let's Study ◆◆◆

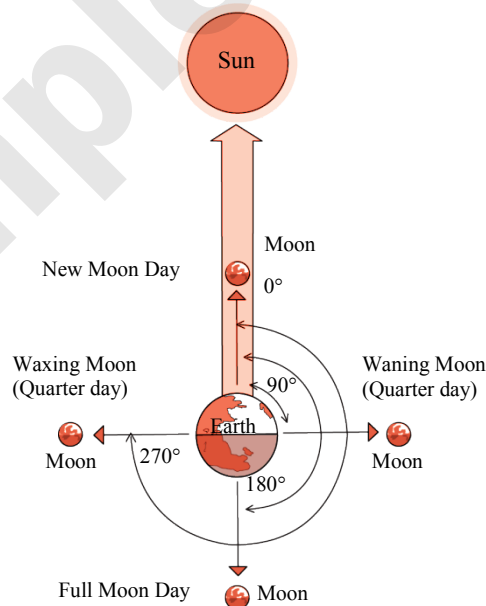
THE MOON'S MOTIONS

1. **Orbital and axial motion:** The revolution, i.e. the orbital motion, around the earth and rotation i.e. the axial motion, around its own axis are the two motions of the moon.
2. **Indirect revolution around the sun:** The moon rotates around itself and revolves around the earth; which itself revolves around the sun. Hence, the moon indirectly revolves around the sun.
3. **Time taken for revolution and rotation:** The time taken by moon for one revolution around the earth is the same as the time taken by it for one rotation about itself. Hence, we constantly see only one side of the moon.

THE MOON'S POSITIONS

1. **Elliptical orbit:** Moon revolves around the earth in an elliptical orbit. Hence, the distance between the earth and the moon varies.
2. **Perigee and apogee positions:** When the moon is closest to the earth, it is said to be in perigee and when it is farthest from the earth, it is said to be in apogee.
3. **Phases of the moon:** The illuminated portions of the moon that are visible from earth are called phases of the moon. These phases are visible due to the sunlight reflected from the moon.
4. **Waxing and waning:** The moon waxes from the new moon day to the full moon day and wanes from the full moon day to the new moon day.
5. **Angle of 5°:** The moon's revolutionary orbit makes an angle of about 5° with that of the earth. Thus, the moon intersects the plane of the earth's orbit twice during one revolution.

THE RELATIVE POSITIONS OF THE SUN, THE MOON AND THE EARTH



Angles made by the earth-moon-sun

1. **Full moon day:** On a full moon day, the moon is on the opposite side of the sun while revolving around the earth.
2. **New moon day:** Similarly, on a new moon day, the moon is between the earth and the sun.



3. **Quarter days:** On the first and the third quarter days, the moon, the earth and the sun make an angle of 90° .

ECLIPSES

1. **Astronomical event:** An eclipse is an astronomical event which is a result of the sun, the earth and the moon being in specific positions.
2. **Relation with new moon days and full moon days:** Solar eclipses occur only on new moon days whereas lunar eclipses occur only on full moon days, but not on every one of them.
3. **Occurrence:** On certain new moon days or full moon days, the moon, the earth and the sun fall in one line and are also in the same plane. This is when eclipses occur.
4. **Angle:** On every new moon day, the lines joining the earth and the sun and the moon make an angle of 0° while on every full moon day this angle is 180° .

SOLAR ECLIPSE

1. **Moon's shadow:** Solar eclipse occurs when the shadow of the moon falls on the earth.
2. **Conditions:** The conditions for the occurrence of a solar eclipse are as follows:
 - (i) It must be a new moon day and hence, the moon is between the sun and the earth.
 - (ii) All three of them fall in the same line.
 - (iii) All three of them are in the same plane.
3. The maximum duration of a total solar eclipse is 7 minutes and 20 seconds (440 seconds)
4. **Precaution:** It is necessary to view the sun disc through dark glasses or special goggles while observing the solar eclipse as the intense light of the sun may harm our naked eyes.

TYPES OF SOLAR ECLIPSES

1. **Total solar eclipse:** In areas of the earth where the moon's dark shadow (the central portion of the shadow) falls, the sun becomes completely invisible. Such an area experiences a total solar eclipse.
2. **Partial solar eclipse:** In areas of the earth where the moon's lighter shadow (the peripheral portion of the shadow) falls, the sun appears partially invisible. Such an area experiences a partial solar eclipse.
3. **Annular solar eclipse:** When the moon is in the apogee position, its shadow is cast in space and does not reach the earth. We can see only an illuminated edge of the sun in the form of a ring. This is called as annular solar eclipse.

LUNAR ECLIPSE

1. **Earth's shadow:** Lunar eclipse occurs when the moon enters the earth's shadow while revolving around it.
2. **Conditions:** The conditions for the occurrence of a lunar eclipse are as follows:
 - (i) It must be a full moon day and hence, the earth is between the sun and the moon.
 - (ii) All three of them fall in the same line.
 - (iii) All three of them are in the same plane.
3. The maximum duration of a total lunar eclipse is 107 minutes.

TYPES OF LUNAR ECLIPSES

1. **Total lunar eclipse:** On a full moon day, when the moon's path of revolution passes through the shadow of the earth and the moon is completely hidden by it, we see a total lunar eclipse.
2. **Partial lunar eclipse:** If the moon is partially hidden due to the shadow of the earth, we see a partial lunar eclipse.



◆◆◆ Summative Assessment ◆◆◆

Textbook Exercise

I. Correct the wrong statements. Write down the corrected ones.

*1. The moon revolves around the sun.

Ans: _____

*2. On a full moon day, the moon, the sun and the earth are positioned in this sequence.

Ans: _____

*3. The revolutionary orbits of the earth and the moon are in the same plane.

Ans: _____

*4. In one revolution of the moon, its orbit intersects the earth's orbit only once.

Ans: _____

*5. It is alright to observe a solar eclipse without protecting the eyes.

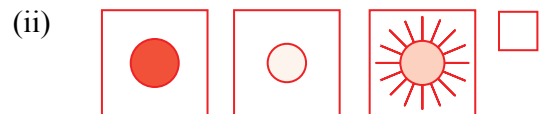
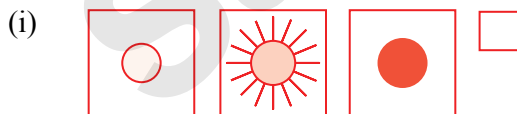
Ans: _____

*6. An annular solar eclipse occurs when the moon is in the perigee position.

Ans: _____

II. Tick the correct option.

*1. Solar eclipse

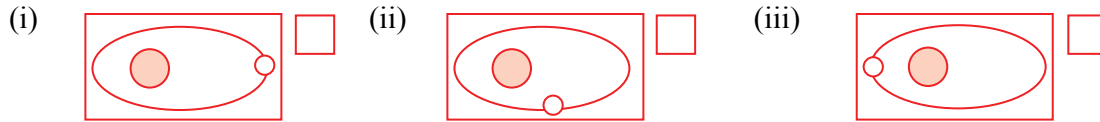


*2. The shape of sun disc at the time of annular solar eclipse





*3. Apogee position of the moon



III. Complete the following table.

*1.

Details	Lunar Eclipse	Solar Eclipse
Phase of the moon	-----	New moon day
Sequence	Moon-Earth-Sun	-----
Type of eclipse	-----	-----
Maximum duration of total eclipse	107 minutes	----- -----

IV. Draw and label the diagrams.

*1. Total and partial solar eclipse

Ans:

*2. Total and partial lunar eclipse

Ans:



V. Answer the following.

- *1. Why do the sun, the moon and the earth not lie in one and the same line on every full moon and new moon day?

Ans: _____

- *2. When total solar eclipse occurs, why is partial eclipse also seen from the earth?

Ans: _____

- *3. Suggest measures that can be taken to eradicate the superstitions related to the eclipses.

(Open Ended Question)

Ans: _____



*4. What precautions should we take while observing a solar eclipse?

Ans: _____

*5. What types of solar eclipses will occur in perigee condition?

Ans: _____

Intext Questions

I. Think about it. (Textbook page no. 4)

1. Consider the relative positions of the sun, the moon and the earth on the new moon day and both the quarters. What will be the angle between the lines joining the earth and the moon as well as the earth and the sun? How many times will this angle be formed in a month?

Ans: _____



II. Use your brain power! (Textbook page no. 6)

(1) On the day of solar eclipse, in which part of the earth will it not be seen?

Ans:

.....

(2) Can we see total and annular solar eclipses on the same occasion?

Ans:

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(3) Why is an annular lunar eclipse not seen?

Ans:

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(4) Which eclipses will you see from the moon?

Ans:

(5) Why are solar eclipses caused by the other planets not seen from the earth?

Ans:

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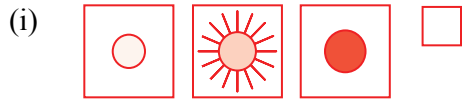
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Let's Practise!

I. Tick the correct option.

1. Lunar eclipse



II. Match the following.

1.

	Group 'A'	Answers		Group 'B'
(i)	Partial solar eclipse	----- -----	(a)	The sun becomes completely invisible
(ii)	Annular solar eclipse	----- -----	(b)	The moon is totally hidden within the shadow of earth
(iii)	Total solar eclipse	----- -----	(c)	The sun disc appears partially covered
(iv)	Total lunar eclipse	----- -----	(d)	Only a part of the moon is hidden within the shadow of earth
(v)	Partial lunar eclipse	----- -----	(e)	An illuminated edge of the sun disc is seen

III. Answer in one sentence.

1. Why do the phases of moon become visible?

Ans: -----

2. What is the position of the moon with respect to sun, on full moon day and new moon day?

Ans: -----



3. What is the angle made by the lines joining the earth, the sun and the moon on a new moon day?

Ans:

.....

4. What is the angle formed between the moon, the earth and the sun on the first and the third quarter days?

Ans:

.....

IV. Draw and label the diagrams.

1. Waxing and waning moon

Ans:



V. Answer the following.

1. How does of annular solar eclipse occur, explain with diagram.

Ans:

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VI. Write short notes on.

1. Perigee

Ans:

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2. Apogee

Ans:

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3. Total lunar eclipse

Ans:

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4. Partial lunar eclipse

Ans:

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VII. Give reasons.

1. We constantly see only one and the same side of the moon.

Ans: _____

2. The moon appears semicircular on the first and the third quarter days.

Ans: _____

3. Birds and animals respond unusually during a solar eclipse.

Ans: _____

Oral Test

1. Name two motions of the moon.
2. Why is eclipse 'an astronomical event' and not any 'auspicious' or 'inauspicious' event?
3. Which eclipses particularly present great opportunities for scientists in the field of astronomy?

Formative Assessment

Activities / Projects

- *1. Collect paper cuttings about eclipses and paste them in a notebook.
- *2. Write a note on an eclipse that you have seen.
- *3. Using the internet, 'Panchanga' and calendar collect information about the eclipses that are likely to occur this year.

Teacher's Remark: _____

Date: _____



AVAILABLE BOOKS FOR STD. VII: (ENG., MAR. & SEMI ENG. MED.)

NOTES

- English Balbharati
- मराठी सुलभभारती
- हिंदी सुलभभारती
- History-Civics
- Geography
- General Science
- Mathematics

NOTES

- My English Book
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- हिंदी सुलभभारती
- इतिहास व नागरिकशास्त्र
- भूगोल
- सामान्य विज्ञान
- गणित

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- Geography
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- Mathematics

ADDITIONAL TITLES

GRAMMAR & WRITING SKILLS BOOKS
(STD. VII & VIII)

- Marathi
- Hindi

AVAILABLE BOOKS FOR STD. VIII: (ENG., MAR. & SEMI ENG. MED.)

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- English Balbharati
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- Mathematics

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