

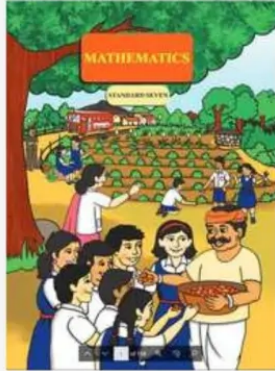



# Maharashtra Board Solutions Class 7-Maths (Practice Set 29): Chapter 6- Indices

BOOK SOLUTIONS  
**CLASS 7**  
MATHS

CHAPTER 6  
**Indices**

Maharashtra Board Solutions →



For any clarifications or questions you can write to [info@indcareer.com](mailto:info@indcareer.com)

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# Maharashtra Board Solutions Class 7-Maths (Practice Set 29): Chapter 6- Indices

Class 7: Maths Chapter 6 solutions. Complete Class 7 Maths Chapter 6 Notes.

## Maharashtra Board Solutions Class 7-Maths (Practice Set 29): Chapter 6- Indices

Maharashtra Board 7th Maths Chapter 6, Class 7 Maths Chapter 6 solutions

### Question 1.

**Simplify:**

i.  $\left[\left(\frac{15}{12}\right)^3\right]^4 \div [(15 \div 12) \div 3]^4$

ii.  $(3^4)^2$

iii.  $\left[\left(\frac{1}{7}\right)^{-3}\right]^4$

iv.  $\left[\left(\frac{2}{5}\right)^{-2}\right]^{-3}$

v.  $(6^5)^4$

vi.  $\left[\left(\frac{6}{7}\right)^5\right]^2$

vii.  $\left[\left(\frac{2}{3}\right)^{-4}\right]^5$

viii.  $\left[\left(\frac{5}{8}\right)^3\right]^{-2}$

ix.  $\left[\left(\frac{3}{4}\right)^6\right]^7$

x.  $\left[\left(\frac{2}{5}\right)^{-3}\right]^2$

**Solution:**

i.  $\left[\left(\frac{15}{12}\right)^3\right]^4$

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$$=\left(\frac{15}{12}\right)^{3 \times 4}=\left(\frac{15}{12}\right)^{12}$$

ii.  $(3^4)^{-2}$

$$=3^{4 \times (-2)}$$

$$=3^{-8}$$

iii.  $\left[\left(\frac{1}{7}\right)^{-3}\right]^4$

$$=\left(\frac{1}{7}\right)^{(-3) \times 4}=\left(\frac{1}{7}\right)^{-12}$$

iv.  $\left[\left(\frac{2}{5}\right)^{-2}\right]^{-3}$

$$=\left(\frac{2}{5}\right)^{(-2) \times (-3)}=\left(\frac{2}{5}\right)^6$$

v.  $(6^5)^4$

$$=6^{5 \times 4}$$

$$=6^{20}$$

vi.  $\left[\left(\frac{6}{7}\right)^5\right]^2$

$$=\left(\frac{6}{7}\right)^{5 \times 2}=\left(\frac{6}{7}\right)^{10}$$

vii.  $\left[\left(\frac{2}{3}\right)^{-4}\right]^5$

$$=\left(\frac{2}{3}\right)^{(-4) \times 5}=\left(\frac{2}{3}\right)^{-20}$$

viii.  $\left[\left(\frac{5}{8}\right)^3\right]^{-2}$

$$=\left(\frac{5}{8}\right)^{3 \times (-2)}=\left(\frac{5}{8}\right)^{-6}$$

ix.  $\left[\left(\frac{3}{4}\right)^6\right]^7$

$$=\left(\frac{3}{4}\right)^{6 \times 1}=\left(\frac{3}{4}\right)^6$$

x.  $\left[\left(\frac{2}{5}\right)^{-3}\right]^2$

$$=\left(\frac{2}{5}\right)^{(-3) \times 2}=\left(\frac{2}{5}\right)^{-6}$$

### Question 2.

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Write the following numbers using positive indices:

i.  $\left(\frac{2}{7}\right)^{-2}$

ii.  $\left(\frac{11}{3}\right)^{-5}$

iii.  $\left(\frac{1}{6}\right)^{-3}$

iv.  $(y)^{-4}$

**Solution:**

i.  $\left(\frac{7}{2}\right)^{2}$

ii.  $\left(\frac{3}{11}\right)^{5}$

iii.  $6^3$

iv.  $\frac{1}{y^4}$



# Maharashtra Board Solutions

## Class 7 Maths

- Chapter 1- Geometrical Constructions (Practice Set 1)
- Chapter 1- Geometrical Constructions (Practice Set 2)
- Chapter 1- Geometrical Constructions (Practice Set 3)
- Chapter 1- Geometrical Constructions (Practice Set 4)
- Chapter 1- Geometrical Constructions (Practice Set 5)
- Chapter 1- Geometrical Constructions (Practice Set 6)
- Chapter 1- Geometrical Constructions (Practice Set 7)
- Chapter 2- Multiplication and Division of Integers (Practice Set 8)
- Chapter 2- Multiplication and Division of Integers (Practice Set 9)
- Chapter 3- HCF and LCM (Practice Set 10)
- Chapter 3- HCF and LCM (Practice Set 11)
- Chapter 3- HCF and LCM (Practice Set 12)
- Chapter 3- HCF and LCM (Practice Set 13)
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- Chapter 4- Angles and Pairs of Angles (Practice Set 15)
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- Chapter 4- Angles and Pairs of Angles (Practice Set 17)
- Chapter 4- Angles and Pairs of Angles (Practice Set 18)
- Chapter 4- Angles and Pairs of Angles (Practice Set 19)
- Chapter 4- Angles and Pairs of Angles (Practice Set 20)
- Chapter 4- Angles and Pairs of Angles (Practice Set 21)

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- Chapter 5- Operations on Rational Numbers (Practice Set 22)
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- Chapter 10- Bank and Simple Interest (Practice Set 40)
- Chapter 10- Bank and Simple Interest (Practice Set 41)
- Chapter 11- Circle (Practice Set 42)

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- Chapter 11- Circle (Practice Set 43)
- Chapter 12- Perimeter and Area (Practice Set 44)
- Chapter 12- Perimeter and Area (Practice Set 45)
- Chapter 12- Perimeter and Area (Practice Set 46)
- Chapter 12- Perimeter and Area (Practice Set 47)
- Chapter 13- Pythagoras Theorem (Practice Set 48)
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- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 50)
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- Chapter 14- Statistics (Practice Set 55)

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## About About Maharashtra State Board (MSBSHSE)

The Maharashtra State Board of Secondary and Higher Secondary Education or MSBSHSE (Marathi: महाराष्ट्र राज्य माध्यमिक आणि उच्च माध्यमिक शिक्षण मंडळ), is an **autonomous and statutory body established in 1965**. The board was amended in the year 1977 under the provisions of the Maharashtra Act No. 41 of 1965.

The Maharashtra State Board of Secondary & Higher Secondary Education (MSBSHSE), Pune is an independent body of the Maharashtra Government. There are more than 1.4 million students that appear in the examination every year. The Maha State Board conducts the board examination twice a year. This board conducts the examination for SSC and HSC.

The Maharashtra government established the Maharashtra State Bureau of Textbook Production and Curriculum Research, also commonly referred to as Ebalbharati, in 1967 to take up the responsibility of providing quality textbooks to students from all classes studying under the Maharashtra State Board. MSBHSE prepares and updates the curriculum to provide holistic development for students. It is designed to tackle the difficulty in understanding the concepts with simple language with simple illustrations. Every year around 10 lakh students are enrolled in schools that are affiliated with the Maharashtra State Board.

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As of now, the MSCERT and Balbharti are responsible for the syllabus and textbooks of Classes 1 to 8, while Classes 9 and 10 are under the Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE).

How many state boards are there in Maharashtra?

The Maharashtra State Board of Secondary & Higher Secondary Education, conducts the HSC and SSC Examinations in the state of Maharashtra through its nine Divisional Boards located at Pune, Mumbai, Aurangabad, Nasik, Kolhapur, Amravati, Latur, Nagpur and Ratnagiri.

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