

Maharashtra Board Solutions Class 9-Maths

(Part 1): Chapter 7.1- Statistics

BOOK SOLUTIONS
CLASS 9
MATHS

CHAPTER 7.1
Statistics



Maharashtra Board Solutions→

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Maharashtra Board Solutions Class 9-Maths

(Part 1): Chapter 7.1- Statistics

Class 9: Maths Chapter 7.1 solutions. Complete Class 9 Maths Chapter 7.1 Notes.

Maharashtra Board Solutions Class 9-Maths (Part 1): Chapter 7.1- Statistics

Maharashtra Board 9th Maths Chapter 7.1, Class 9 Maths Chapter 7.1 solutions

Question 1.

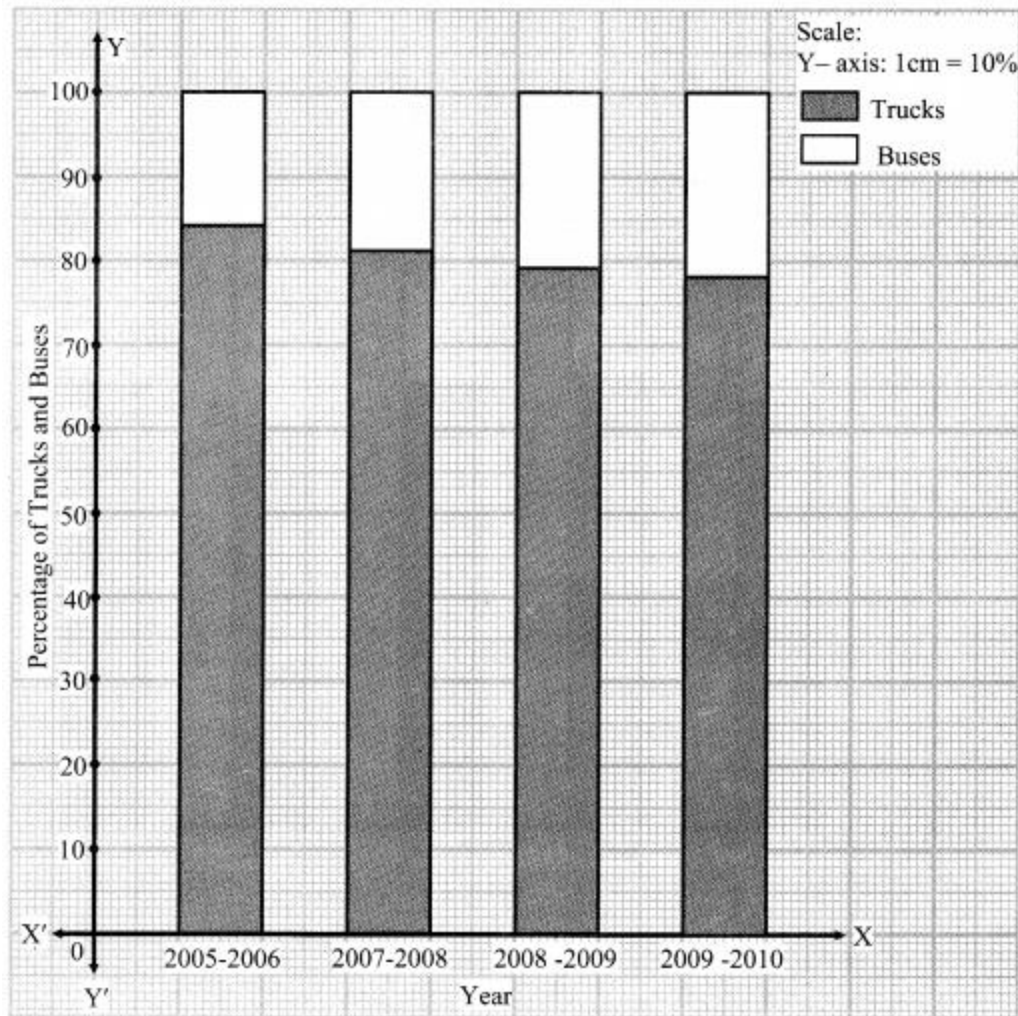
The following table shows the number of Buses and Trucks in nearest lakh units. Draw percentage bar diagram. (Approximate the percentages to the nearest integer)

Year	2005-2006	2007-2008	2008-2009	2009-2010
No. of Trucks	47	56	60	63
No. of Buses	9	13	16	18

Solution:

Year	2005-2006	2007-2008	2008-2009	2009-2010
No. of Trucks	47	56	60	63
No. of Buses	9	13	16	18
Total	56	69	76	81
Percentage of Trucks	$\frac{47}{56} \times 100 = 83.93\%$ ~ 84 %	$\frac{56}{69} \times 100 = 81.16\%$ ~ 81 %	$\frac{60}{76} \times 100 = 78.95\%$ ~ 79 %	$\frac{63}{81} \times 100 = 77.78\%$ ~ 78 %
*, Percentage of Buses	$100 - 84 = 16 \%$	$100 - 81 = 19 \%$	$100 - 79 = 21 \%$	$100 - 78 = 22 \%$

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Question 2.

In the table given below, the information is given about roads. Using this draw sub-divided and percentage bar diagram (Approximate the percentages to the nearest integer)

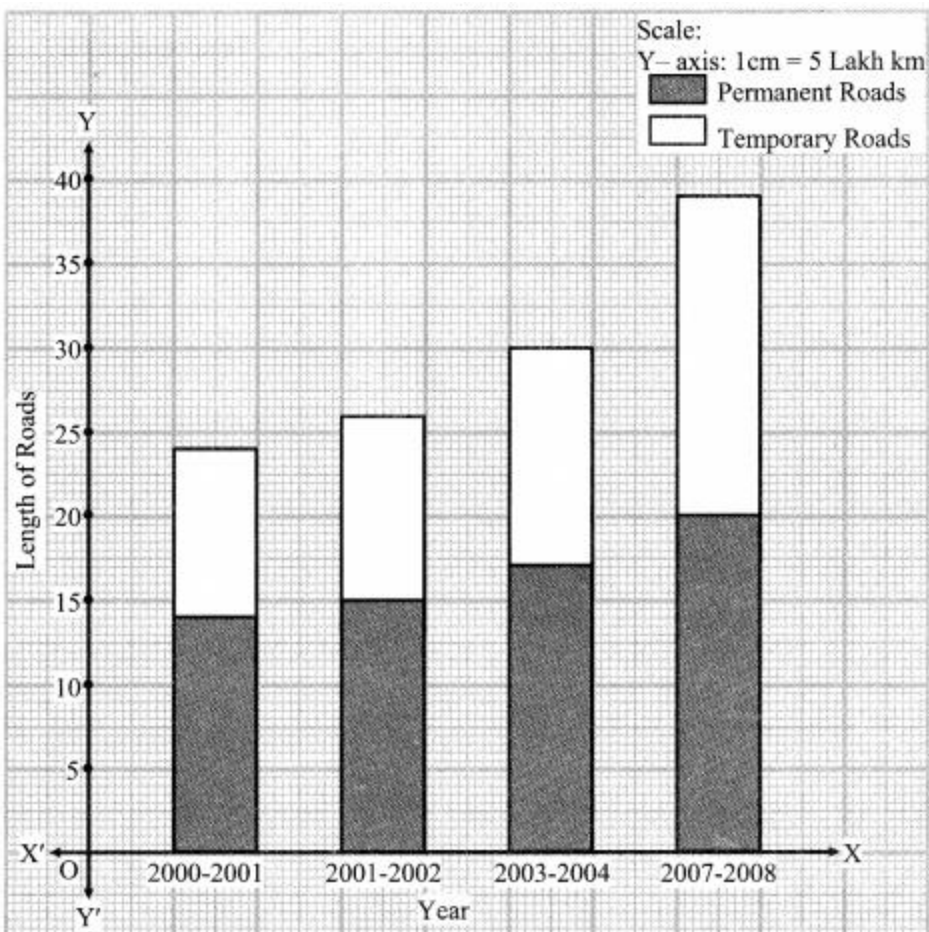
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Year	Permanent Roads (Lakh km.)	Temporary Roads (Lakh km.)
2000-2001	14	10
2001-2002	15	11
2003-2004	17	13
2007-2008	20	19

Solution:

i. Sub-divided bar diagram:

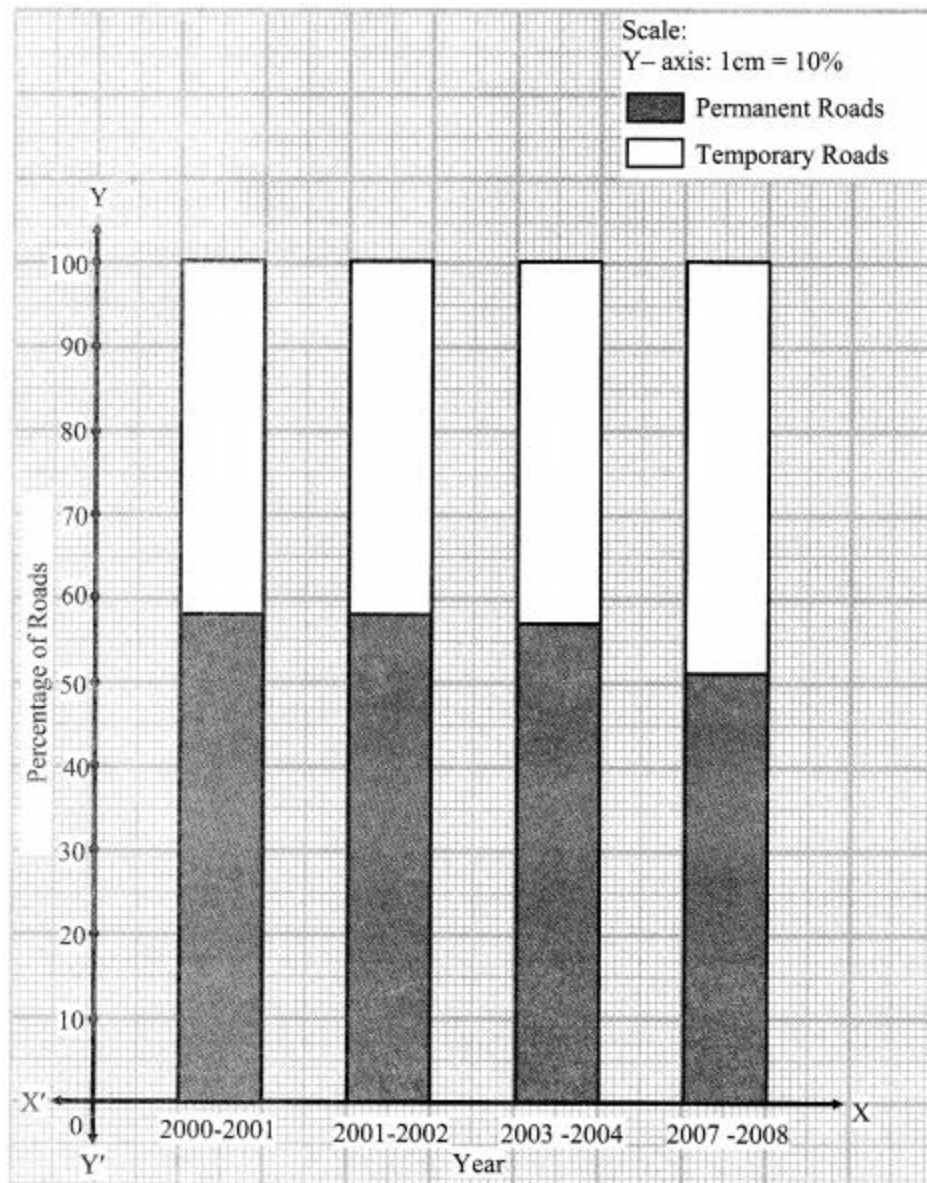
Year	Permanent Roads (Lakh km.)	Temporary Roads (Lakh km.)	Total
2000-2001	14	10	24
2001-2002	15	11	26
2003-2004	17	13	30
2007-2008	20	19	39



ii. Percentage bar diagram:

Year	2000-2001	2001-2002	2003-2004	2007-2008
Permanent Roads (Lakh km.)	14	15	17	20
Temporary Roads (Lakh km.)	10	11	13	19
Total	24	26	30	39
Percentage of Permanent Roads	$\frac{14}{24} \times 100 = 58.33\%$ ~ 58 %	$\frac{15}{26} \times 100 = 57.69\%$ ~ 58 %	$\frac{17}{30} \times 100 = 56.67\%$ ~ 57 %	$\frac{20}{39} \times 100 = 51.28\%$ ~ 51 %
Percentage of Temporary Roads	100 - 58 = 42 %	100 - 58 = 42 %	100 - 57 = 43 %	100 - 51 = 49 %

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Question 1.

A farmer has produced Wheat and Jowar in his field. The following joint bar diagram shows the production of Wheat and Jowar. From the given diagram answer the following questions: (Textbook pg. no. 108)

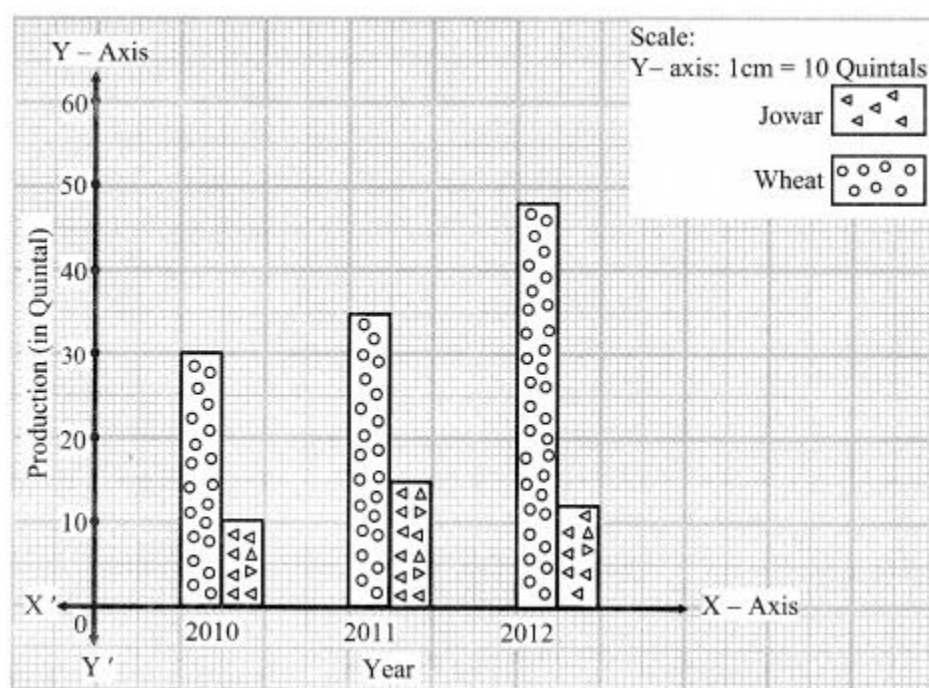
- Which crop production has increased consistently in 3 years?
- By how many quintals the production of Jowar has reduced in 2012 as compared to 2011?

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iii. What is the difference between the production of wheat in 2010 and 2012 ?

iv. Complete the following table using this diagram.

Year \ Production (in Quintal)	Wheat	Jowar	Total
2010			
2011			
2012	48	12	60



Solution:

- The crop production of wheat has increased consistently in 3 years.
- The production of jowar has reduced by 3 quintals in 2012 as compared to 2011.
- The difference between the production of wheat in 2010 and 2012 = $48 - 30 = 18$ quintals
-

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Year \ Production (in Quintal)	Wheat	Jowar	Total
2010	30	10	40
2011	35	15	50
2012	48	12	60

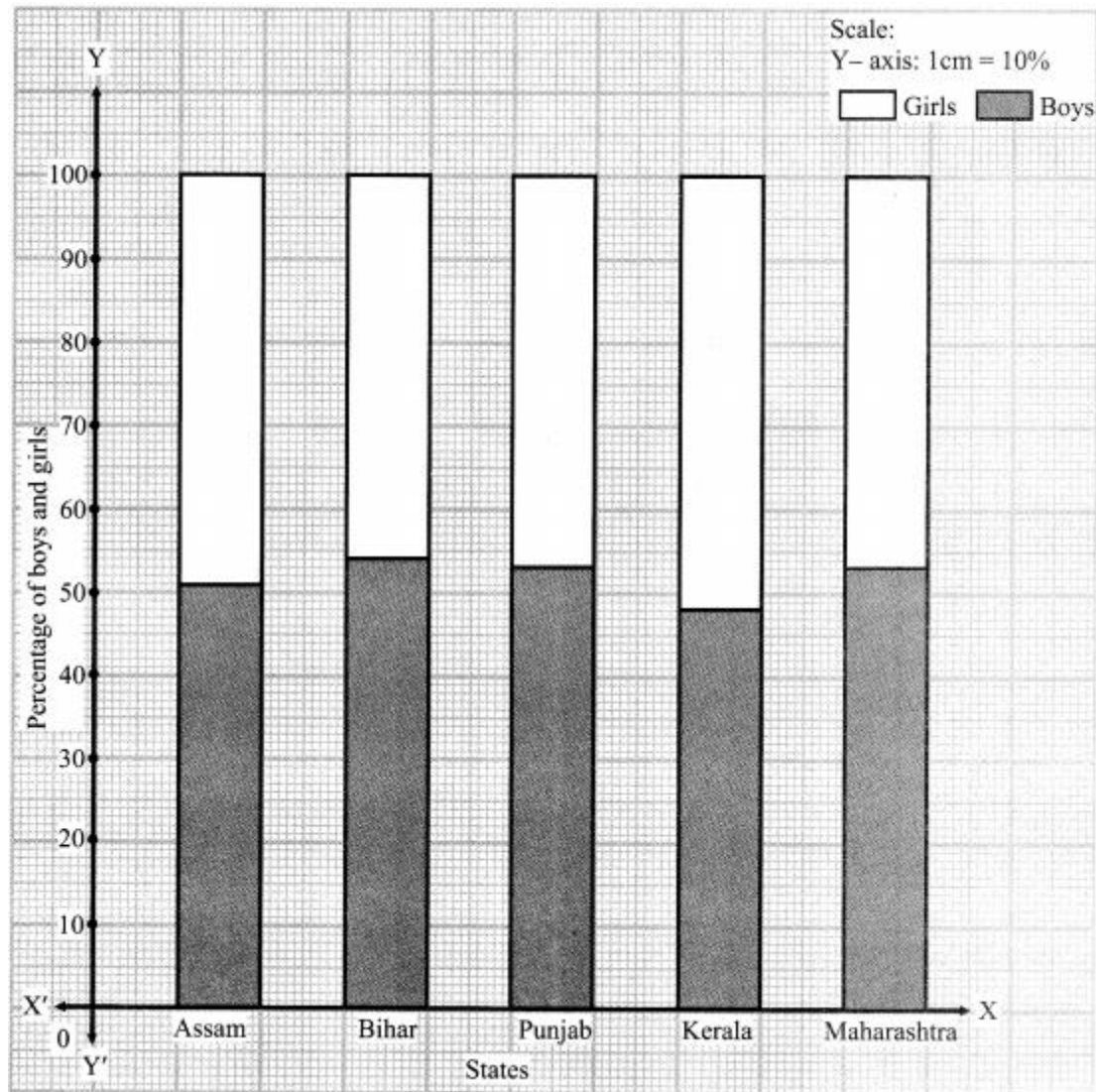
Question 2.

In the following table, the information of number of girls per 1000 boys is given for different states. Fill In the blanks and complete the table. (Textbook pg. no. 111)

States	Boys	Girls	Total	Percentage of boys (to the nearest integer)	Percentage of girls (to the nearest integer)
Assam	1000	960	1960	$\frac{1000}{1960} \times \frac{100}{1} = 51\%$	$100 - 51 = 49\%$
Bihar	1000	840	1840	$\frac{1000}{1840} \times \frac{100}{1} = 54.35\% \sim 54\%$	$100 - 54 = 46\%$
Punjab	1000	900	1900	$\frac{1000}{1900} \times \frac{100}{1} = 52.63\% \sim 53\%$	$100 - 53 = 47\%$
Kerala	1000	1080	2080	$\frac{1000}{2080} \times \frac{100}{1} = 48.08\% \sim 48\%$	$100 - 48 = 52\%$
Maharashtra	1000	900	1900	$\frac{1000}{1900} \times \frac{100}{1} = 52.63\% \sim 53\%$	$100 - 53 = 47\%$

Solution:

Draw percentage bar diagram from this information and discuss the findings from the diagram.



Question 3.

For the above given activity, the information of number of girls per 1000 boys is given for five states. The literacy percentage of these five states is given below. Assam (73%), Bihar (64%), Punjab (77%), Kerala (94%), Maharashtra (83%). Think of the number of girls and the literacy percentages in the respective states. Can you draw any conclusions from it? (Textbook pg. no. 112)

Solution:

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By observing the number of girls per 1000 boys and literacy percentages in the given respective states, we can conclude that the literacy rate of girls is least in Bihar and is highest in Kerala



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Class 9 Maths

Part 1

- Chapter 1.1- Sets
- Chapter 1.2- Sets
- Chapter 1.3- Sets
- Chapter 1.4- Sets
- Chapter 2.1- Real Numbers
- Chapter 2.2- Real Numbers
- Chapter 2.3- Real Numbers
- Chapter 2.4- Real Numbers
- Chapter 2.5- Real Numbers
- Chapter 3.1- Polynomials
- Chapter 3.2- Polynomials
- Chapter 3.3- Polynomials
- Chapter 3.4- Polynomials
- Chapter 3.5- Polynomials
- Chapter 3.6- Polynomials
- Chapter 4.1- Ratio and Proportion
- Chapter 4.2- Ratio and Proportion
- Chapter 4.3- Ratio and Proportion
- Chapter 4.4- Ratio and Proportion
- Chapter 4.5- Ratio and Proportion
- Chapter 5.1- Linear Equations in Two Variables
- Chapter 5.2- Linear Equations in Two Variables
- Chapter 6.1- Financial Planning
- Chapter 6.2- Financial Planning
- Chapter 7.1- Statistics
- Chapter 7.2- Statistics
- Chapter 7.3- Statistics
- Chapter 7.4- Statistics

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- Chapter 7.5- Statistics

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

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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.

FAQs

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Who developed the Maharashtra State board books?

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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