

Maharashtra Board Solutions Class 9-Maths

(Part 1): Chapter 6.1- Financial Planning

BOOK SOLUTIONS
CLASS 9
MATHS

CHAPTER 6.1
Financial Planning



Maharashtra Board Solutions→

For any clarifications or questions you can write to info@indcareer.com

Postal Address

IndCareer.com, 52, Shilpa Nagar, Somalwada Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888, **Website:** <https://www.indcareer.com>

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>



Maharashtra Board Solutions Class 9-Maths

(Part 1): Chapter 6.1- Financial Planning

Class 9: Maths Chapter 6.1 solutions. Complete Class 9 Maths Chapter 6.1 Notes.

Maharashtra Board Solutions Class 9-Maths (Part 1): Chapter 6.1- Financial Planning

Maharashtra Board 9th Maths Chapter 6.1, Class 9 Maths Chapter 6.1 solutions

Question 1.

Alka spends 90% of the money that she receives every month, and saves ₹ 120. How much money does she get monthly?

Solution:

Let Alka's monthly income be ₹ x.

Alka spends 90% of the money that she receives every month.

$$\therefore \text{Amount spent by Alka} = 90\% \text{ of } x$$

$$= 90\% \times x = 0.9x$$

Now, Savings = Income – Expenditure

$$\therefore 120 = x - 0.9x$$

$$\therefore 120 = 0.1x$$

$$\therefore x = \frac{120 \times 100}{10} = 1200$$

$$\therefore x = 1200$$

Alka gets ₹ 1200 monthly.

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

Question 2.

Sumit borrowed a capital of ₹ 50,000 to start his food products business. In the first year he suffered a loss of 20%. He invested the remaining capital in a new sweets business and made a profit of 5%. How much was his profit or loss computed on his original capital ?

Solution:

Original capital borrowed by Sumit = ₹ 50000

Sumit suffered a loss of 20% in his food products business.

∴ Loss suffered in the first year = 20% of 50000

$$= 20100 \times 50000$$

$$= ₹10000$$

Remaining capital = Original capital – loss suffered = 50000- 10000

$$= ₹ 40000$$

Sumit invested the remaining capital i.e. ₹ 40,000 in a new sweets business. He made a profit of 5%.

Profit in sweets business = 5% of 40000

$$= 5100 \times 40000 \ 100$$

$$= ₹ 2000$$

New capital with Sumit after the profit in new sweets business = 40000 + 2000 = ₹42000

Since, the new capital is less than the original capital, we can conclude that Sumit suffered a loss.

Total loss on original capital = Original capital – New capital

$$= 50000 - 42000 = ₹ 8000$$

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

$$\begin{aligned}\therefore \text{Percentage of loss} &= \frac{\text{Total loss}}{\text{Original capital}} \times 100 \\ &= \frac{8000}{50000} \times 100 \\ &= 16\%\end{aligned}$$

$\therefore$ Sumit suffered a loss of 16% on the original capital.

Question 3.

Nikhil spent 5% of his monthly income on his children's education, invested 14% in shares, deposited 3% in a bank and used 40% for his daily expenses. He was left with a balance of ₹ 19,000. What was his income that month?

Solution:

Let the monthly income of Nikhil be ₹ x.

Nikhil invested 14% in shares and deposited 3% in a bank.

$\therefore$ Total investment = (14% + 3%) of x

= 17% of x

= $\frac{17}{100} \times x$

= 0.17x

Nikhil spent 5% on his children's education and used 40% for his daily expenses.

$\therefore$ Total expenditure = (5% + 40%) of x

= 45% of x

= $\frac{45}{100} \times x$

= 0.45x

Amount left with Nikhil = 19,000

Amount left with Nikhil = Income – (Total investment + Total expenditure)

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

$$\therefore 19000 = x - (0.17x + 0.45x)$$

$$\therefore 19000 = x - 0.62x,$$

$$\therefore 19000 = 0.38x$$

$$\therefore x = 190000.38 = 19000 \times 1000.38 \times 100 = 1900000.38$$

$$= 50000$$

$\therefore$ The monthly income of Nikhil is ₹ 50000.

Question 4.

Mr. Sayyad kept ₹ 40,000 in a bank at 8% compound interest for 2 years. Mr. Fernandes invested ₹ 1,20,000 in a mutual fund for 2 years. After 2 years, Mr. Fernandes got ₹ 1,92,000. Whose investment turned out to be more profitable?

Solution:

Mr. Sayyad:

Mr. Sayyad kept ₹ 40,000 in a bank at 8% compound interest for 2 years $P = ₹ 40000$, $R = 8\%$, $n = 2$ years

$\therefore$ Compound interest (I)

= Amount (A) – Principal (P)

$$= P \left(1 + \frac{R}{100} \right)^n - P$$

$$= P \left[\left(1 + \frac{R}{100} \right)^n - 1 \right]$$

$$= 40000 \left[\left(1 + \frac{8}{100} \right)^2 - 1 \right]$$

$$= 40000 [(1 + 0.08)^2 - 1]$$

$$= 40000 [(1.08)^2 - 1]$$

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

$$= 40000(1.1664 - 1)$$

$$= 40000 (0.1664)$$

$$= ₹ 6656$$

∴ Mr. Sayyad's percentage of profit Interest

$$= \frac{\text{Interest}}{\text{Amount invested}} \times 100$$

$$= \frac{6656}{40000} \times 100$$

$$= 16.64\% \quad \dots(i)$$

Mr. Fernandes:

Amount invested by Mr. Fernandes in mutual fund = ₹ 120000

Amount received by Mr. Fernandes after 2 years = ₹ 192000

∴ Profit earned by Mr. Fernandes

= Amount received – Amount invested

$$= 192000 - 120000$$

$$= ₹ 72000$$

∴ Mr. Fernandes percentage of profit Profit earned

$$= \frac{\text{Profit earned}}{\text{Amount invested}} \times 100$$

$$= \frac{72000}{120000} \times 100$$

$$= 60\%$$

From (i) and (ii),

Investment of Mr. Fernandes turned out to be more profitable.

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

Question 5.

Sameera spent 90% of her income and donated 3% for socially useful causes. If she was left with ₹ 1750 at the end of the month, what was her actual income ?

Solution:

Let the actual income of Sameera be ₹ x.

Sameera spent 90% of her income and donated 3%.

∴ Sameera's total expenditure

$$= (3\% + 90\%) \text{ of } x$$

$$= 93\% \text{ of } x$$

$$= 93100 \times x$$

$$= 0.93x$$

Now, Savings = Income – Expenditure

$$\therefore 1750 = x - 0.93x$$

$$\therefore 1750 = 0.07x$$

$$x = 1750 \div 0.07 = 1750 \times 1000 \div 7 = 25000$$

∴ The actual income of Sameera is ₹ 25000.

Question 1.

Amita invested some part of ₹ 35000 at 4% and the rest at 5% interest for one year. Altogether her gain was ₹ 1530. Find out the amounts she had invested at the two different rates. Write your answer in words. (Textbook pg. no. 97)

Solution:

Let the amount invested at the rate of 4% and 5% be ₹ x and ₹ y respectively.

According to the first condition, total amount invested = ₹ 35000

$$\therefore x + y = 35000 \dots (i)$$

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

According to the second condition,

total interest received at 4% and 5% is ₹ 1530.

$$\therefore 4\% \text{ of } x + 5\% \text{ of } y = 1530$$

$$\therefore 4100 \times x + 5100 \times y = 1530$$

$$\therefore 4x + 5y = 153000 \dots(ii)$$

Multiplying equation (i) by 4, we get

$$4x + 4y = 140000 \dots(iii)$$

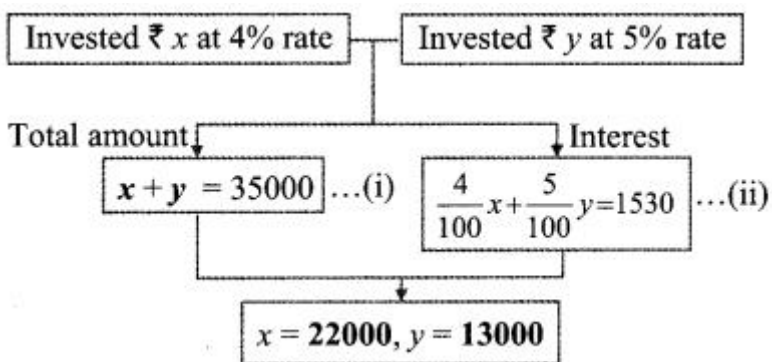
Subtracting equation (iii) from (ii),

$$\begin{array}{r} 4x + 5y = 153000 \\ 4x + 4y = 140000 \\ \hline y = 13000 \end{array}$$

Substituting $y = 13000$ in equation (i),

$$x + 13000 = 35000$$

$$\therefore x = 35000 - 13000 = 22000$$



$\therefore$ Amita invested ₹ 22000 at the rate of 4% and ₹ 13000 at the rate of 5%.



Maharashtra Board Solutions

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

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

- 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

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

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.

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

FAQs

Where do I get the Maharashtra State Board Books PDF For free download?

You can download the Maharashtra State Board Books from the eBalbharti official website, i.e. cart.ebalbharati.in or from this article.

Add image

How to Download Maharashtra State Board Books?

Students can get the Maharashtra Books for primary, secondary, and senior secondary classes from here. You can view or download the Maharashtra State Board Books from this page or from the official website for free of cost. Students can follow the detailed steps below to visit the official website and download the e-books for all subjects or a specific subject in different mediums.

Step 1: Visit the official website ebalbharati.in

Step 2: On the top of the screen, select "Download PDF textbooks"

Step 3: From the "Classes" section, select your class.

Step 4: From "Medium", select the medium suitable to you.

Step 5: All Maharashtra board books for class 11th will now be displayed on the right side.

Step 6: Click on the "Download" option to download the PDF book.

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.

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>

About IndCareer

IndCareer.com is a leading developer of online career guidance resources for the Indian marketplace. Established in 2007, IndCareer.com is currently used by over thousands of institutions across India, including schools, employment agencies, libraries, colleges and universities.

IndCareer.com is designed to assist you in making the right career decision - a decision that meets your unique interests and personality.

For any clarifications or questions you can write to **info@indcareer.com**

Postal Address

IndCareer.com
52, Shilpa Nagar,
Somalwada
Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888

Website: <https://www.indcareer.com>

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-9-maths-part-1-chapter-6-1-financial-planning/>