

RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.2: Using RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.2 students can gain a clear understanding of cubes and cube roots. These solutions prepared by subject experts provide step-by-step guidance and detailed explanations for each problem in the exercise.

By working through this chapter students can enhance their grasp of key mathematical concepts, improve their problem-solving abilities, and build a solid foundation in handling cubes and cube roots. These resources are valuable for clarifying doubts, reinforcing knowledge and preparing effectively for exams.

RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.2 Overview

These solutions for RS Aggarwal's Class 8 Maths Chapter 4 Exercise 4.2 prepared by subject experts of Physics Wallah provide a detailed overview of cubes and cube roots.

The detailed explanations and step-by-step guidance provided help students understand the concepts more deeply. With these solutions, students can effectively tackle problems related to cubes and cube roots, improving their mathematical skills and boosting their confidence. These resources are designed to facilitate better learning and exam preparation.

RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.2 PDF

The PDF link provided below contains the RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.2.

By referring to this PDF, students can enhance their understanding of the topic clarify their doubts, and practice effectively. This resource is designed to support students in mastering the concepts of cubes and cube roots, ensuring better preparation for their exams.

RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.2 PDF

RS Aggarwal Solutions for Class 8 Maths Chapter 4 Cubes and Cube Roots (Exercise 4B) Exercise 4.2

Here we have provided RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.2 to help students in their exam preparation.

The comprehensive solutions in this PDF are designed to help students understand how to approach and solve questions related to cubes and cube roots effectively.

By solving these solutions, students can practice solving cube and cube root problems, clarify their doubts, and strengthen their understanding of the concepts. This will help in improving their performance in exams and achieving better results.

Find the value of each of the following using the short-cut method:

(1) $(25)^3$

Solution: Here, $a = 2$ and $b = 5$

a^2	a^2	b^2	b^2
<u>$\times a$</u>	<u>$\times 3b$</u>	<u>$\times 3a$</u>	<u>$\times b$</u>
a^3	$3a^2b$	$3ab^2$	b^3
4	4	25	25
<u>$\times 2$</u>	<u>$\times 15$</u>	<u>$\times 6$</u>	<u>$\times 5$</u>
8	60	150	125
<u>$+7$</u>	<u>$+ 16$</u>	<u>$+12$</u>	
15	76	162	

$$\therefore (25)^3 = 15625$$

(2) $(47)^3$

Solution: Here, $a = 4$ and $b = 7$

a^2	a^2	b^2	b^2
<u>$\times a$</u>	<u>$\times 3b$</u>	<u>$\times 3a$</u>	<u>$\times b$</u>
a^3	$3a^2b$	$3ab^2$	b^3

16	16	49	49
$\times 4$	$\times 21$	$\times 12$	$\times 7$
64	336	588	343
<u>+39</u>	<u> + 62</u>	<u>+34</u>	<u> </u>
<u>103</u>	398	622	<u> </u>

$$\therefore (47)^3 = 103823$$

(3) (68)³

Solution: Here, a = 6 and b = 8

a ²	a ²	b ²	b ²
$\times a$	$\times 3b$	$\times 3a$	$\times b$
a ³	3a ² b	3ab ²	b ³

36	36	64	64
$\times 6$	$\times 24$	$\times 18$	$\times 8$
216	864	1152	512
<u>+ 98</u>	<u> + 120</u>	<u>+51</u>	<u> </u>
<u>314</u>	984	1203	<u> </u>

$$\therefore (68)^2 = 314432$$

(4) (84)³

Solution: here, a = 8 and b = 4

a^2	a^2	b^2	b^2
$\times a$	$\times 3b$	$\times 3a$	$\times b$
a^3	$3a^2b$	$3ab^2$	b^3
64	64	16	16
$\times 8$	$\times 12$	$\times 24$	$\times 4$
512	768	384	64
$+ 80$	$+ 39$	$+ 6$	
<u>592</u>	<u>807</u>	<u>390</u>	

$$\therefore (84)^3 = 592704$$

Benefits of RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.2

- **Enhanced Understanding of Concepts:** RS Aggarwal Solutions for Chapter 4 Exercise 4.2 provide detailed explanations of cubes and cube roots. This helps students grasp the fundamental concepts and understand the principles behind the calculations leading to a deeper comprehension of the topic.
- **Step-by-Step Guidance:** The solutions provide step-by-step instructions for solving each problem. This structured approach helps students learn how to tackle complex problems systematically and develop problem-solving skills.
- **Effective Practice:** By working through the exercises provided students get ample practice with cubes and cube roots. Regular practice with these solutions helps reinforce their learning and improve their ability to solve similar problems in exams.
- **Clarification of Doubts:** The detailed solutions address common mistakes and misunderstandings, allowing students to clarify their doubts. This helps in correcting errors and improving accuracy in solving problems.
- **Preparation for Exams:** These solutions help in effective exam preparation by helping students practice a variety of problems. This prepares them to handle different types of questions that may appear in their exams.
- **Time Management:** The practice problems help students manage their time efficiently during exams by teaching them to solve problems quickly and accurately. This ensures they can complete their exams within the allotted time.

