RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.3: Using RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.3 students can gain a clear understanding of cubes and cube roots.

This exercise provides detailed solutions to help students master these concepts. Each problem is solved step-by-step providing clarity on how to approach and solve cube-related questions. By working through these solutions students can enhance their problem-solving skills, address any confusion and strengthen their grasp of the material. These solutions are designed to support students in improving their performance and achieving better results in their exams.

[CBSE Compartment Result 2024](#)

RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.3 Overview

The RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.3 have been prepared by the subject experts of Physics Wallah. This exercise focusing on cubes and cube roots, includes step-by-step solutions and detailed explanations designed to enhance students understanding of the topic.

The expert-prepared solutions help clarify complex concepts and provide a solid foundation for solving related problems. By working through these solutions, students can improve their problem-solving skills, build confidence and achieve better results in their exams.

RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.3 PDF

The PDF link for RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.3 is available below. This resource provide detailed solutions and explanations for problems related to cubes and cube roots, helping students grasp the concepts effectively.

By reviewing these solutions students can practice and understand the topics better, which will aid them in improving their performance in exams.

[RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.3 PDF](#)

RS Aggarwal Solutions for Class 8 Maths Chapter 4 Cubes and Cube Roots (Exercise 4C) Exercise 4.3

Here you can find the RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.3 aimed at assisting students with their exam preparation.

This detailed solutions to help students understand and work through problems involving cubes and cube roots. With these comprehensive answers, students can practice effectively resolve any uncertainties, and enhance their grasp of the concepts.

Utilizing these solutions will not only boost their confidence but also improve their exam performance and help them achieve better results.

Question 1:
Find the cube root of 64.

Solution:
To find the cube root of 64, we use prime factorization: 64 = 2 × 2 × 2 × 2 × 2 × 2 = (2 × 2 × 2) × (2 × 2 × 2)
So,
$\sqrt[3]{64} = \sqrt[3]{(2^3 \times 2^3)} = 2 \times 2 = 4$

Question 2:
Find the cube root of 343.

Solution:
To find the cube root of 343, we use prime factorization: 343 = 7 × 7 × 7 = 7^3
So,
$\sqrt[3]{343} = \sqrt[3]{(7^3)} = 7$

Question 3:
Find the cube root of 729.

Solution:
To find the cube root of 729, we use prime factorization: 729 = 3 × 3 × 3 × 3 × 3 × 3 = (3 × 3 × 3) × (3 × 3 × 3)
So,
$\sqrt[3]{729} = \sqrt[3]{(3^3 \times 3^3)} = 3 \times 3 = 9$

Question 4:
Find the cube root of 1728.

Solution:
To find the cube root of 1728, we use prime factorization: 1728 = 2 × 2 × 2 × 2 × 2 × 2 × 3 × 3 × 3 = (2 × 2 × 2) × (2 × 2 × 2) × (3 × 3 × 3)
So,
$\sqrt[3]{1728} = \sqrt[3]{(2^3 \times 2^3 \times 3^3)} = 2 \times 2 \times 3 = 12$

Question 5:
Find the cube root of 9261.

Solution:
To find the cube root of 9261, we use prime factorization: 9261 = 3 × 3 × 3 × 7 × 7 × 7 = (3 × 3 × 3) × (7 × 7 × 7)
So,
$\sqrt[3]{9261}$ = $\sqrt[3]{(3^3 × 7^3)}$ = 3 × 7 = 21

Question 6:
Find the cube root of 4096.

Solution:
To find the cube root of 4096, we use prime factorization: 4096 = 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 = (2 × 2 × 2 × 2) × (2 × 2 × 2 × 2) × (2 × 2 × 2 × 2)
So,
$\sqrt[3]{4096}$ = $\sqrt[3]{(2^4 × 2^4 × 2^4)}$ = 2 × 2 × 2 = 16

Question 7:
Find the cube root of 8000.

Solution:
To find the cube root of 8000, we use prime factorization: 8000 = 2 × 2 × 2 × 2 × 2 × 2 × 5 × 5 × 5 = (2 × 2 × 2) × (2 × 2 × 2) × (5 × 5 × 5)
So,
$\sqrt[3]{8000}$ = $\sqrt[3]{(2^3 × 2^3 × 5^3)}$ = 2 × 2 × 5 = 20

Question 8:
Find the cube root of 3375.

Solution:
To find the cube root of 3375, we use prime factorization: 3375 = 3 × 3 × 3 × 5 × 5 × 5 = (3 × 3 × 3) × (5 × 5 × 5)
So,
$\sqrt[3]{3375}$ = $\sqrt[3]{(3^3 × 5^3)}$ = 3 × 5 = 15

Question 9:
Find the cube root of -216.

Solution:
To find the cube root of -216, we use prime factorization: -216 = -(2 × 2 × 2 × 3 × 3 × 3) = -(2 × 2 × 2) × (3 × 3 × 3)
So,
$\sqrt[3]{-216}$ = $\sqrt[3]{[-(2^3 × 3^3)]}$ = -(2 × 3) = -6

Question 10:
Find the cube root of -512.

Solution:

To find the cube root of -512, we use prime factorization: -512 = -(2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2) = -(2³ × 2³ × 2³)

So,

³√-512 = ³√[-(2³ × 2³ × 2³)] = -2

Question 11:

Find the cube root of -1331.

Solution:

To find the cube root of -1331, we use prime factorization: -1331 = -(11 × 11 × 11) = -11³

So,

³√-1331 = ³√[-(11³)] = -11

Question 12:

Find the cube root of -27/64.

Solution:

To find the cube root of -27/64, we use prime factorization: -27/64 = -(3 × 3 × 3) / (4 × 4 × 4) = -(3³) / (4³)

So,

³√(-27/64) = ³√[-(3³) / (4³)] = -3/4

Question 13:

Find the cube root of -125/216.

Solution:

To find the cube root of -125/216, we use prime factorization: -125/216 = -(5 × 5 × 5) / (6 × 6 × 6) = -(5³) / (6³)

So,

³√(-125/216) = ³√[-(5³) / (6³)] = -5/6

Question 14:

Find the cube root of -27/225.

Solution:

To find the cube root of -27/225, we use prime factorization: -27/225 = -(3 × 3 × 3) / (15 × 15 × 15) = -(3³) / (15³)

So,

³√(-27/225) = ³√[-(3³) / (15³)] = -3/15 = -1/5

Question 15:

Find the cube root of -64/343.

Solution:

To find the cube root of -64/343, we use prime factorization: -64/343 = -(4 × 4 × 4) / (7 × 7 × 7) =

-(4³) / (7³)
So,
$\sqrt[3]{(-64/343)} = \sqrt[3]{[-(4^3) / (7^3)]} = -4/7$

Question 16:
Find the cube root of 64 * 729.

Solution:
To find the cube root of 64 * 729, we use prime factorization: 64 = 2 × 2 × 2 × 2 × 2 × 2 = (2³) × (2³)
729 = 3 × 3 × 3 × 3 × 3 × 3 = (3³) × (3³)
So,
64 * 729 = (2³) × (2³) × (3³) × (3³)
$\sqrt[3]{(64 * 729)} = \sqrt[3]{[(2^3) × (2^3) × (3^3) × (3^3)]} = 2 × 2 × 3 × 3 = 36$

Question 17:
Find the cube root of 729/1000.

Solution:
To find the cube root of 729/1000, we use prime factorization: 729/1000 = (3 × 3 × 3 × 3 × 3 × 3) / (10 × 10 × 10) = (3³) / (10³)
So,
$\sqrt[3]{(729/1000)} = \sqrt[3]{[(3^3) / (10^3)]} = 3/10$

Benefits of RS Aggarwal Solutions for Class 8 Maths Chapter 4 Cubes and Cube Roots (Exercise 4C) Exercise 4.3

- **Clarified Fundamental Concepts:** RS Aggarwal Solutions for Class 8 Maths Chapter 4 Exercise 4.3 provide clear and detailed explanations of cubes and cube roots. This helps students grasp the fundamental concepts thoroughly, including how to calculate cubes and cube roots, and understand their practical applications.
- **Step-by-Step Problem Solving:** The solutions provide step-by-step guidance for solving problems related to cubes and cube roots. This structured approach ensures that students can follow along and learn the correct methods for tackling similar problems in their exams.
- **Strengthens Understanding:** By working through the solutions provided students can reinforce their understanding of how to work with cubes and cube roots. This practice is important for building a strong foundation in these mathematical concepts, which are essential for more advanced topics in mathematics.
- **Improves Problem-Solving Skills:** Regular practice with these solutions enhances students problem-solving skills. They learn how to apply the concepts of cubes and cube

roots to different types of problems, which is beneficial for developing analytical and critical thinking skills.

● **Boosts Exam Confidence:** The comprehensive nature of the solutions helps students feel more confident in their ability to handle questions related to cubes and cube roots.

● **Identifies and Corrects Mistakes:** By comparing their answers with the solutions provided, students can identify and correct mistakes in their approach. This feedback helps them understand where they went wrong and how to avoid similar errors in the future.

● **Aids in Time Management:** The solutions help students learn how to solve problems efficiently, which is important for managing time during exams. By practicing with these solutions, students can improve their speed and accuracy, ensuring they complete their exams within the allotted time.

● **Enhances Exam Preparation:** Overall, RS Aggarwal Solutions for Exercise 4.3 act as a valuable resource for exam preparation.