

**Answer the questions**

- (1) ABCD is a quadrilateral in which AB is parallel to CD and  $AD = BC = 5$  cm. If  $\angle A = 105^\circ$ , find the value of  $\angle B$ .
- (2) A sphere is just enclosed inside a cube of volume  $72 \text{ cm}^3$ . Find the volume of the sphere.
- (3) Vinayak got an average score of 82.25 in 4 tests. He got 83 as the average of the highest 3 scores, and his lowest two scores are the same numbers. What is the average of his highest two scores?
- (4) Examine if the following numbers are rational or irrational.
- |                                   |                          |                   |
|-----------------------------------|--------------------------|-------------------|
| A) $\sqrt{6}$                     | B) $\sqrt{5} + \sqrt{7}$ | C) $\sqrt{5}$     |
| D) $(3 - \sqrt{6})(3 - \sqrt{6})$ | E) $\sqrt{5} - \sqrt{7}$ | F) $\sqrt{6} + 8$ |
- (5) The length and breadth of a rectangle is 20 cm and 99 cm. Find the radius of circumcircle of this rectangle.

**Choose correct answer(s) from given choice**

- (6) The three angles of a quadrilateral are  $29^\circ$ ,  $31^\circ$  and  $144^\circ$  respectively. Find the fourth angle.
- |                |                |
|----------------|----------------|
| a. $156^\circ$ | b. $204^\circ$ |
| c. $24^\circ$  | d. $66^\circ$  |
- (7) Harsh is part of the school cricket team, and this year he has scored an average of 46 runs. He has played 5 innings so far, and his scores in 4 of them are 46, 45, 39, 55. What was his score in the last one?
- |       |       |
|-------|-------|
| a. 49 | b. 45 |
| c. 39 | d. 44 |
- (8) From a point in the interior of an equilateral triangle, perpendiculars are drawn on the three sides. The lengths of the perpendiculars are 12 cm, 16 cm and 10 cm. Find the area of the triangle.
- |                               |                          |
|-------------------------------|--------------------------|
| a. $3.8\sqrt{3} \text{ cm}^2$ | b. $833.69 \text{ cm}^2$ |
| c. $1083.797 \text{ cm}^2$    | d. $38 \text{ cm}^2$     |
- (9) The average of 9 numbers is 22. If the average of first 4 results is 25 and that of last 4 is 21, then find the 4<sup>th</sup> number.
- |       |       |
|-------|-------|
| a. 13 | b. 15 |
| c. 16 | d. 14 |

# Grade 9 Mathematics Questions And Answers

**JE Gale**



## **Grade 9 Mathematics Questions And Answers:**

The book delves into Grade 9 Mathematics Questions And Answers. Grade 9 Mathematics Questions And Answers is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Grade 9 Mathematics Questions And Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Grade 9 Mathematics Questions And Answers
    - Chapter 2: Essential Elements of Grade 9 Mathematics Questions And Answers
    - Chapter 3: Grade 9 Mathematics Questions And Answers in Everyday Life
    - Chapter 4: Grade 9 Mathematics Questions And Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Grade 9 Mathematics Questions And Answers. This chapter will explore what Grade 9 Mathematics Questions And Answers is, why Grade 9 Mathematics Questions And Answers is vital, and how to effectively learn about Grade 9 Mathematics Questions And Answers.
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  6. In chapter 5, the author will draw a conclusion about Grade 9 Mathematics Questions And Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Grade 9 Mathematics Questions And Answers.

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