

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 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° , 31° and 144° respectively. Find the fourth angle.
- | | |
|----------------|----------------|
| a. 156° | b. 204° |
| c. 24° | d. 66° |
- (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 cm^2 |
| c. 1083.797 cm^2 | d. 38 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 4th number.
- | | |
|-------|-------|
| a. 13 | b. 15 |
| c. 16 | d. 14 |

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