



Olympiads | Publication | Education
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the metamorphosis starts from here....



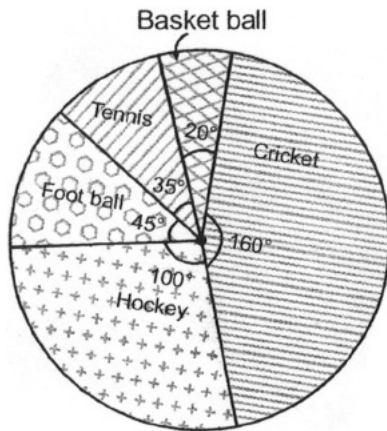
**BRILLIANT
INTERNATIONAL
Olympiad of
MATHEMATICS**

Class-VIII (Syllabus and Sample Question Paper)

Rational Number, Powers, Square and Square Root, Cube and Cube Root, Algebraic Expression, Factorization, Linear Equation, Variation, Time and Work, Percentage, Profit and Loss, Compound Interest and Simple Interest, Mensuration, Statistics, Probability, Mathematical Reasoning and Logical Ability, Mathematical Reasoning, Everyday Mathematics

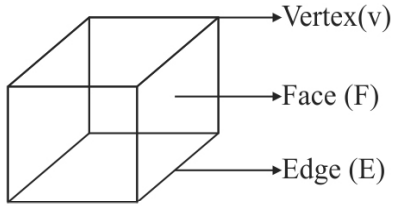
The Actual Question Paper Contains 40 Questions. The Duration of the Test Paper is 60 Minutes

1. **The following pie chart represents the amount spent on different sports by a school administration in a calendar year. If the money spent on football is ₹9000 then what is the total amount spent on sports?**



- (A) ₹68,000 (B) ₹70,000 (C) ₹72,000 (D) ₹81,000
(E) None of these
-
2. **If the sum of three consecutive natural number is 288, then the largest among them is ?**
- (A) 95 (B) 97 (C) 98 (D) 96
(E) None of these
-
3. **Read the statement given below :**
Statement : The sum of two rational number is always a rational number.
Above Statement tells which of the following property of rational number?
- (A) Associative property (B) Commutative Property
(C) Existence of additive identity (D) Closure property
(E) None of these

4. A cube has 6 faces, 12 edges and 8 vertices



Which of the following is true for a cuboid ?

- (A) 12F, 8E, 6v (B) 6F, 12E, 8v (C) 8F, 6E, 12v (D) 12F, 6E, 8v
(E) None of these

5. If the ratio of interior angle to exterior angle of a regular polygon is 7:2, then the number of sides of polygon is ?

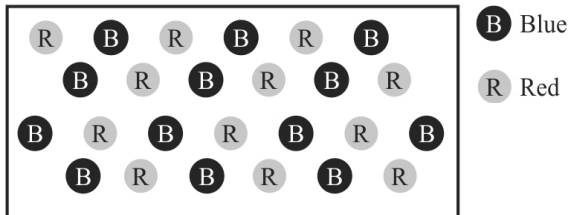
- (A) 8 (B) 9 (C) 10 (D) 11
(E) None of these

6. The mode of following data is :

Scores	20	21	22	24	25
Frequency	2	4	10	2	6

- (A) 21 (B) 22 (C) 23 (D) 24
(E) None of these

7. A box contains blue and red coloured balls. The probability of getting red ball is :



- (A) $\frac{16}{42}$ (B) $\frac{13}{42}$ (C) $\frac{6}{25}$ (D) $\frac{12}{25}$
(E) None of these

8. Which of the following is a square number?

- (A) 1057 (B) 7928 (C) 23453 (D) 221841
(E) None of these

9. If the area of a square field is 533.61 square meter, then its perimeter (correct to 2 decimal places) is ?

- (A) 92.40 m (B) 92.65 m (C) 93.00 m (D) 93.93 m
(E) None of these

10. Find the cube root of 29791 ?

- (A) 31 (B) 41 (C) 29 (D) 19
(E) None of these

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11. The smallest numbers by which 6561 must be multiplied so that the product will be a perfect cube is?
(A) 3 (B) 7 (C) 9 (D) 11
(E) None of these
-
12. The value of $(x - y)(x + y)(x^2 + y^2)(x^4 + y^4)$ is?
(A) $x^8 - y^8$ (B) $x^8 + y^8$ (C) $x^6 - y^6$ (D) $x^6 + y^6$
(E) None of these
-
13. The value of y such that $\frac{y}{10} + \frac{2y}{5} - \frac{16}{25} = \frac{1}{25}$ is?
(A) $\frac{17}{25}$ (B) $\frac{34}{25}$ (C) $\frac{45}{25}$ (D) $\frac{46}{25}$
(E) None of these
-
14. A cricket team wins 12 of the total match it played. If this is the 40% of the total match in the tournament, then find the total match played in the tournament?
(A) 24 (B) 26 (C) 22 (D) 30
(E) None of these
-
15. Mary deposited Rs. 3500 in a bank and received Rs. 3850 after 5 years at a certain rate of interest fixed by the bank. The rate of interest fixed by the bank is?
(A) 3 % (B) 2 % (C) 4 % (D) 5 %
(E) None of these

ANSWERS

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|-------|-------|-------|-------|-------|
| 1. C | 2. B | 3. D | 4. B | 5. B |
| 6. B | 7. D | 8. D | 9. A | 10. A |
| 11. C | 12. A | 13. B | 14. D | 15. B |