



www.zigya.com

Previous Year Paper

Mathematics - 2015

Study, Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.



Multiple Choice Questions

1. The internal base of a rectangular box is 15 cm long and 1212 cm wide and its 2 height is 7 cm. The box is filled with 2 cubes each of side 212 cm. The number of 2 cubes will be
- A. 90
 - B. 120
 - C. 45
 - D. 60

Answer

2. The perimeter of a trapezium is 58 cm and sum of its non-parallel sides is 20 cm. If its area is 152 cm, then the distance between the parallel sides (in cm) is
- A. 9.8
 - B. 15.2
 - C. 6
 - D. 8

Answer

3. The measure of each interior angle of a regular convex polygon is 156° . The number of sides of the polygon is
- A. 10
 - B. 8
 - C. 15
 - D. 12

Answer

4. Which one of the following is not a problem solving strategy in Mathematics ?
- A. Solving backwards
 - B. Rote learning
 - C. Trial and error
 - D. Drawing

Answer

5. According to Piaget, when the child is at formal operational stage, it is appropriate to introduce
- A. numbers
 - B. geometry
 - C. ratio and proportion
 - D. data handling

Answer

Like. Share. Bookmark. Download. Make Notes. Print - Your Favourite Questions. Join www.zigya.com

"Hindu-Arabic numerals are more powerful than Roman Numerals."

Study Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.
Objective of this FA activity is to assess

- A. creativity
- B. understanding
- C. knowledge
- D. analysis

Answer

7. In a Mathematics classroom, emphasis is placed on
- A. problem solving strategies
 - B. mathematical algorithms and processes
 - C. mathematical content
 - D. mathematical content, process and reasoning

Answer

8. The value of -23003×52903 is
- A. - 270
 - B. 230
 - C. - 230
 - D. - 529

Answer

9. The value of $2abc5bac$, where $a = 2$, $b = 3$ and $c = 0$, is
- A. - 1
 - B. 25
 - C. 1
 - D. 0

Answer

10. The value of $4 + 4410 + 404100 + 4441000 + 410000$ is
- A. 12.8844
 - B. 12.8804
 - C. 12.8224
 - D. 12.8944

Answer

11. The smallest value of y in the number $9y8071$ so that it is divisible by 11 is
- A. 2
 - B. 3
 - C. 1
 - D. 0

Answer

12. A sum of money amounts to Rs. 4818 after 3 yr and Rs. 7227 after 6 yr on compound interest.
Like. Share. Bookmark. Download. Make Notes. Print - Your Favourite Questions. Join www.zigya.com

A. 3122

Study, Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.

B. 3212

C. 2409

D. 2490

Answer

13. If the weight of 18 sheets of paper is 50 g, how many sheets of the same paper will weigh 334kg

A. 1386

B. 1836

C. 1350

D. 1314

Answer

14. If $3x - 23 + 2x + 32 = x + 76$, then the value of $5x - 24$ is

A. 14

B. - 112

C. 112

D. - 13

Answer

15. If the number of sides of a regular polygon is n , then the number of lines of symmetry is equal to

A. $2n$

B. n

C. n^2

D. n^2

Answer

16. The sides of a triangle are 6.5 cm, 10 cm and x cm, where x is a positive number. What is the smallest possible value of x among the following?

A. 3.5

B. 4

C. 4.5

D. 2.8

Answer

17. Chhaya simplified the given rational number $-25 - 30 = -56$ This error can be considered as

A. procedural error

B. error due to wrong interpretation of problem

C. careless error

D. conceptual error

Answer

18. 'Data handling' at upper primary stage focuses on

A. data organisation only

Like. Share. Bookmark. Download. Make Notes. Print - Your Favourite Questions. Join www.zigya.com

C. data collection, organisation and interpretation

Study, Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.

D. data interpretation only

Answer

19. Read the following problem given in a textbook for class VII "A map is given with a scale of 2 cm = 1000 km. What is the actual distance between two places (in km), if the distance on the map is 2.5 cm?" This problem is
- A. based on higher order thinking skills
 - B. to enhance problem solving skills
 - C. interdisciplinary in nature
 - D. investigatory in nature

Answer

20. Which one of the following is not a Mathematical process?
- A. Memorisation
 - B. Measurement
 - C. Visualisation
 - D. Estimation

Answer

21. According to NCF 2005, school Mathematics takes place in a situation where
- A. children are listeners and the teacher is an active narrator
 - B. children are involved in chorus drill of formulae and pressure of performance in examination
 - C. Mathematics is part of children's life experience
 - D. children are forced to learn all concepts by daily practice

Answer

22. A teacher gives the following problem related to 'discount' to the students for solving. "The Marked Prices (MP) of a shirt and sweater are ₹200 and ₹300 respectively and the discounts on the marked prices of shirt and sweater are 20% and 12%, respectively. While preparing the bill, the shopkeeper interchanged the discounts on these items by mistake. On getting the bill, Hamida noticed the mistake and paid the actual amount to the shopkeeper. How much money did Hamida pay to the shopkeeper?"

What value does the teacher try to promote through this problem?

- A. Co-operation
- B. Sympathy
- C. Compassion
- D. Honesty

Answer

23. The difference between the greatest and smallest fraction amongst $\frac{67}{100}$, $\frac{89}{100}$, $\frac{910}{1000}$, $\frac{78}{100}$ is

A. $\frac{172}{1000}$

Like. Share. Bookmark. Download. Make Notes. Print - Your Favourite Questions. Join www.zigya.com

C. 370

Study Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.

D. 156

Answer

24. The additive inverse of S, where

$$S = 1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + \dots + 49 - 50, \text{ is}$$

A. - 25

B. 1

C. 0

D. 25

Answer

25. If $a = 3^{129} \times 5^{128} \times 7^{22}$,

$$b = 3^{128} \times 5^{129} \times 7^{21},$$

$$c = 3^{128} \times 5^{129} \times 7^{21} \text{ and}$$

$$d = 3^{127} \times 5^{128} \times 7^{24}, \text{ then HCF of a, b, c and d is}$$

$$A. 3^{128} \times 5^{129} \times 7^{21}$$

$$B. 3^{127} \times 5^{128} \times 7^{21}$$

$$C. 3^{127} \times 5^{128} \times 7^{22}$$

$$D. 3^{128} \times 5^{128} \times 7^{21}$$

Answer

26. $14.96 \times 1010 - 3.84 \times 108$ is expressed in standard form as

$$A. 1492.16 \times 10^8$$

$$B. 1.49216 \times 10^{11}$$

$$C. 14921.6 \times 10^9$$

$$D. 14.9216 \times 10^{10}$$

Answer

27. The sum of mean, mode and median of the data 6, 3, 9, 5, 1, 2, 3, 6, 5, 1, 3 is

A. 12

B. 13

C. 10

D. 11

Answer

28. Natural numbers 4 to 15 are written on different slips (one number on one slip), kept in a box and mixed well. Renu picks up one slip from the box without looking into it. What is the probability that this slip bears a prime number?

Like. Share. Bookmark. Download. Make Notes. Print - Your Favourite Questions. Join www.zigya.com

B. 512

Study, Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.

D. 311

Answer

29. If $4x^2 + 12xy - 8x + 9y^2 - 12y = ax + by$, then the value of $a^2 + b^2$ is

A. 13

B. 25

C. - 9

D. 8

Answer

30. In the product of $(5x + 2)$ and $(2x^2 - 3x + 5)$, the sum of the coefficients of x^2 and x is

A. 9

B. - 8

C. - 9

D. 8

Answer