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NABARD GRADE A

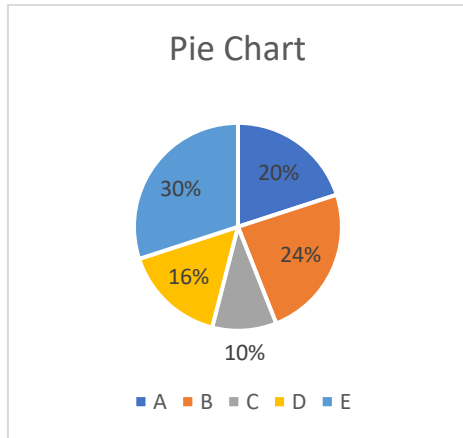
PHASE I Quantitative Aptitude Previous
Paper

Simplifying
Government Exams

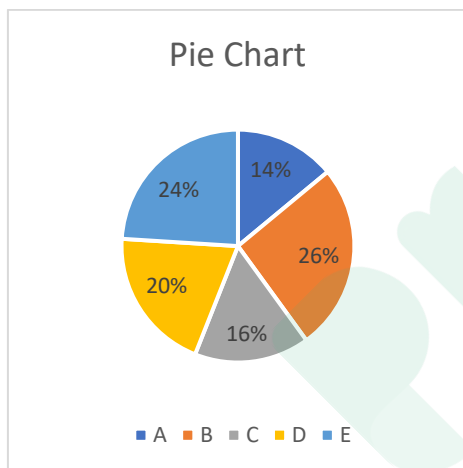


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1. Direction: Refer to the pie charts to answer the given questions.



Above pie chart represent the population of villages–A, B, C, D and E in 2015 where, Total population of all villages = 18000



Above pie chart represents the population of illiterates in respective villages in 2015 where,

Total number of illiterates = 40% of Total population of all villages

Total village population = Number of literates + Number of illiterates

In 2017, the population of village C remained the same as that in 2015, but the number of literates increased by 'X'. As a result the total number of literates become 70% more than that of illiterates. What is the value of 'X'?

- a) 620
 - b) 440
 - c) 680
 - d) 485
 - e) 430
2. The difference between the number of illiterates in village D and E is approximately what percent of that of the difference between literates in village D and E?
- a) 30
 - b) 20
 - c) 35
 - d) 13
 - e) 15
3. In Village D, the male to female ratio among the illiterates is 5 : 3 respectively. Out of the illiterates, If 'X' females and "1.25 X" males work as farmers and the ratio between males and females who do not work as farmers is 5 : 2 respectively, what is the value of 'X' ?
- a) 240
 - b) 300
 - c) 360
 - d) 380
 - e) 280
4. The average number of illiterates in Village D, F and G is 1910. 40% and 30% of the population of villages F and G respectively are illiterate. If the ratio of the population of Village F and G is 4 : 5 respectively, what is the total population of Villages F and G together?
- a) 10000
 - b) 12256
 - c) 12456
 - d) 13000

e) 14000

5. In Village A, if the respective ratio between number of males and females is 17 : 13 and there are 1000 illiterate males in village A, what is the number of male literates in village A ?

- a) 480
- b) 540
- c) 940
- d) 1040
- e) 1140

6. If the volume and curved surface area of a cylinder 1232 m³ and 704 m² respectively, what is the total surface area of the cylinder (in m²)?

- a) 429
- b) 521
- c) 629
- d) 721
- e) 781

7. Find the value of x.

Statement I: A person lent out a sum of Rs. 2400 in the ratio of 5: x in scheme A and scheme B, respectively. Scheme A is offering a simple interest of 8% per annum and Scheme B is offering a simple interest of $3(x+1)\%$ per annum. Interest earned from scheme A after 2 years is Rs. 24 more than the interest earned from scheme B after 2 years.

Statement II: A person lent out a sum of Rs. 2400 in the ratio of 5: 3 in scheme A and scheme B, respectively. Scheme A is offering a simple interest of 8% per annum and Scheme B is offering a simple interest of $3(x+1)\%$ per annum. Simple Interest earned from scheme A after 9 years is equal to the interest earned from scheme B after $(x+7)$ years.

- a) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
- b) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
- c) If the data either in statement I alone or in statement II alone is sufficient to answer the question
- d) If the data in both statements I and II together are necessary to answer the question
- e) If the data given in both statements I and II together are not sufficient to answer the question.

8. Direction: In each of the following questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:

How long will the tank take to fill up completely?

Statement I: Two taps take 8 hours to fill a tank

Statement II: One tap can empty the tank in 20 hours

- a) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
- b) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question

- c) If the data either in statement I alone or in statement II alone is sufficient to answer the question
- d) If the data in both statements I and II together are necessary to answer the question
- e) If the data given in both statements I and II together are not sufficient to answer the question.

9. Direction: The question given below has few statements along with it. You have to determine which of the statement/s is/are sufficient/necessary for answering the question and mark your answer accordingly: Find the present age of Prashant.

Statement I: Age of Abhishek is average of age of Akshay and Prashant and age of Abhishek is 14 years less than twice the age of himself 4 years ago. Ratio of present age of Prashant to Akshay is 7: 4, respectively.

Statement II: Age of Akshay is 2 years more than half of age of Prashant. Age of Prashant is 10 years less than the sum of present age of Akshay and Abhishek. Abhishek is 6 years younger than Prashant.

- a) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
- b) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
- c) If the data either in statement I alone or in statement II alone is sufficient to answer the question
- d) If the data in both statements I and II together are necessary to answer the question

- e) If the data given in both statements I and II together are not sufficient to answer the question.

10. Directions: Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:

What is A's monthly income?

- I. A's monthly income is Rs. 2500 less than B's monthly income.
- II. Ratio of B's monthly income and C's monthly income is 2:1.

- a) if the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.
- b) if the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.
- c) if the data in statement I alone or in Statement II alone are sufficient to answer the question.
- d) if the data in both the Statements I and II are not sufficient to answer the question.
- e) if the data in both the Statements I and II together are necessary to answer the question.

11. Direction: Given question is followed by information given in two statement named as Quantity 1 and Quantity 2. You have to study the information along with the question and compare the value derived from Quantity 1 and Quantity 2 then answer the question.

Quantity 1: Find the value of $x(6x^2 + 17) - (3x^2 + 20) = 0$

Quantity 2: Find the value of $y(5y^2 - 12) - (9y^2 - 16) = 0$

- a) Quantity 1 > Quantity 2
- b) Quantity 1 ≥ Quantity 2
- c) Quantity 1 < Quantity 2
- d) Quantity 1 ≤ Quantity 2
- e) if $x = y$ or relationship cannot be established

12. Directions: Find the value of "x" and "y" and answer accordingly

I. $5x^2 + 44x + 32 = 0$

II. $9y^2 + 74y + 77 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x < y$
- d) $x \leq y$
- e) $x = y$ or relationship between x and y cannot be established.

13. Directions: In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer

Quantity I: $16x^2 + 28x + 12 = 0$

Quantity II: $6y^2 + 32y + 42 = 0$

- a) Quantity I > Quantity II
- b) Quantity I ≥ Quantity II
- c) Quantity I < Quantity II
- d) If Quantity I ≤ Quantity II
- e) Quantity I = Quantity II or relationship between x and y cannot be established.

14. Direction: Solve the following question by calculating the two quantities and comparing them:

Quantity 1: $3x^2 - 54x - (27)^2 = 0$

Quantity 2: $4x^2 - 450x + 8100 = 0$

- a) Quantity 1 > Quantity 2
- b) Quantity 1 ≥ Quantity 2
- c) Quantity 1 < Quantity 2
- d) Quantity 1 ≤ Quantity 2
- e) Quantity 1 = Quantity 2 or no relation.

Direction (15-18): What should come in place of the question mark '?' in the following number series?

15. 520, 268, 142, ?, 47.5, 31.75

- a) 81
- b) 79
- c) 83
- d) 81.25
- e) None of these

16. 520, 268, 142, ?, 47.5, 31.75

- a) 81
- b) 79
- c) 83
- d) 81.25
- e) None of these

17. 4, 1.5, 1.75, ?, 8.5, 35.5

- a) 3.25
- b) 2.50
- c) 2.25
- d) 3
- e) None of these

18. 0, 10, 34, 78, 148, ?

- a) 250
- b) 248
- c) 200
- d) 190
- e) None of these

19. Shobhit is twice as efficient as Rohit and Rohit is twice as efficient as Mohit. If all of them working together and complete the work in 20 days, then find in how many days Rohit and Shobhit working together can complete that work?

- a) $(65/3)$ days
- b) $(70/3)$ days
- c) $(50/3)$ days
- d) $(73/3)$ days
- e) $(79/3)$ days

20. P, Q and R started a business by investing Rs.900, Rs.1300 and Rs.2000 respectively. After two years they invested another amounts in the ratio 3 : 1 : 5. After another 1 year, P, Q and R withdrew Rs.200, Rs.400 and Rs.1000 from the business respectively. Now the profit earned from the business after 4 years from the start of the business is in the ratio of 4 : 5 : a and share of P in the profit is Rs.1200. Find the total profit earned from the business.

- a) Rs. 4100
- b) Rs. 5100
- c) Rs. 4800
- d) Rs. 5400
- e) None of these



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