BOOST UP PDFS | Quantitative Aptitude | Percentage
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1. If 20% of a = b, then b% of 20 is the same as?

a. 4% of a

b. 6% of a

c. 8% of a

d. 10% of a

e. None of these

2. The population of a town increased from 1,75,000 to 2,62,500 in a decade. The average percent increase of population per year is?

a. 4.37%

b. 5%

c. 6%

d. 8.75%

e. None of these

3. Two friends, Akash & Beenu had some candies each. One of them had 15 candies more than the other. The candy with Akash was 60% of the total candies with them. How many candies did each have?

a. 40, 25

b. 47, 32

c. 45, 30

d. 49, 34

e. None of these

4. A fruit seller had some oranges. He sells 30% oranges and still has 140 mangoes. Originally, he had?

a. 288 oranges

b. 300 oranges

c. 672 oranges

d. 200 oranges

e. None of these

5. A student has to obtain 33% of the total marks to pass. He got 125 marks and failed by 40 marks. The maximum marks are?

a. 500

b. 600

c. 800

d. 1000

e. None of these

6.A vessel contains milk and water in which 20% water. 20 litres of mixture was taken out and replaced by water and the ratio becomes 12:13. Find the initial quantity of milk in the vessel?

a. 40 litres

b. 30 litres

c. 50 litres

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d. 56 litres

e. 60 litres

7. A container contains pure milk. From these 4 litres of milk taken out and replaced by water. This process is repeated for one more time and the remaining milk in the container is 12.8 litres. What is the initial quantity of milk in the container?

a. 15 litres

b. 20 litres

c. 25 litres

d. 24 litres

e. 32 litres

8. Two numbers A and B are such that the sum of 5% of A and 4% of B is two-third of the sum of 6% of A and 8% of B. Find the ratio of A : B?

a. 2 : 3

b. 1 : 1

c. 3 : 4

d. 4 : 3

e. None of these

9. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was:

a. 2700

b. 2900

c. 3000

d. 3100

e. None of these

10. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

a. 39, 30

b. 41, 32

c. 42, 33

d. 43, 34

e. None of these

11. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had?

a. 588 apples

b. 600 apples

c. 672 apples

d. 700 apples

e. None of these

12.If the price of a book is first decreased by 25% and then increased by 20%, then the net change in the price will be?

a. 10

b. 20

c. 30

d. 40

e. None of these

13. The population of a town was 1,60,000 three years ago, If it increased by 3%, 2.5% and 5% respectively in the last three years, then the present population in?

a. 155679

b. 167890

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c. 179890

d. 177366

e. None of these

14. If x is 80% of y, then what percent of 2x is y?

a.65.5 %

b.64.5 %

c. 63.5 %

d.62.5 %

e. None of these

15. Gaurav spends 30% of his monthly income on food articles, 40% of the remaining on conveyance and clothes and saves 50% of the remaining. If his monthly salary is Rs. 18,400, how much money does he save every month?

a. 3864

b. 4903

c. 5849

d. 6789

e. None of these

16. If 75% of a number is added to 75, then the result is the number itself. The number is?

a.100

b.200

c. 300

d.400

e. None of these

17. Three candidates, Ajay, Bijoy & Chandu contested an election and received 1800, 3300 and votes 3900 respectively. What percent of the total votes did A get?

a. 20%

b. 40%

c. 45%

d. 70%

e. None of these

18. A Stationery seller had some Pens, Sharpeners, Erasers & Pencils. He sells 65% of the total units and still has 175 units. Originally, he had?

a. 588 units

b. 400 units

c. 272 units

d. 500 units

e. None of these

19.The total population of a village increased from 1,80,00 to 22, 500 in a decade. The average percentage increase of population per year of that village is?

a. 2.37%

b. 2.5%

c. 3. 6%

d. 6.75%

e. None of these

20. The difference of two numbers is 20% of the larger number, if the smaller number is 20, then the larger number is?

a.15

b. 25

c. 35

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d.45

e. None of these

21.The difference between a number and its two-fifth is 510. What is 10% of that number?

a. 75

b. 85

c. 95

d. 105

e. None of these

22. A trader mixes two types of rice varieties with a cost of Rs.36 and Rs.42. If he sells the mixture of Rs.44 at 10% profit, in what ratio he mixes two types of rice varieties?

a. 1:2

b. 1:3

c. 2:3

d. 2:5

e. 3:2

23.Kay required Rs. 800 for paying her fees. She borrowed 20 % from her brother and 30 % of the remaining was funded by her mother. In her bank she had Rs. 200. How much more does she need (in Rs.)?

a. 248

b. 336

c. 148

d. 236

e. None of these

24.A teacher says, 15% of first number is equal to 21% of the second number. So, 18% of first number will be what percent of second number?

a. 18%

b. 20%

c. 24%

d. 25.2%

e. None of these

25. Two candidates contested an election. The losing candidate got 40% votes and lost by 2000 votes. Find the total number of votes cast?

a. 5000

b. 8000

c. 10000

d. 20000

e. None of these

26.Present population of a city is 60,000. It increases at the rate of 10%. Find the population of the city after 4 years?

a. 65,550

b. 80,500

c. 87,846

d. 88,550

e. None of these

27. If the numerator of a fraction is increased by 150% and the denominator of the fraction is increased by 350%, the resultant fraction is 25/51. What is the original fraction?

a.31/25

b. 15/17

c. 14/25

d. 11/16

e. None of these

28. In an examination, 34% of the students failed in Mathematics and 42% faiied in English. If 20% of the students failed in both the subjects, then the percentage of students who passed in both the subjects was?

a. 34 %

b. 44 %

c. 54 %

d.64 %

e. None of these

29. If 15% of x = 20% of y, then x:y is ____?

a. 4:3

b. 5:4

c. 4:5

d. 3:4

e. None of these

30. Abhinav scores 80% in physics and 66% in chemistry and the maximum marks of both the papers are 100. What percent does he score in maths which is of 200 marks, if he scores 80% marks in all the three subjects?

a.74%

b.84%

c. 87%

d.83%

e. None of these

31.The difference between two numbers is 1550. If 8 % of one number is 10 % of the other number, then find the two numbers?

a. 4973, 6523

b. 5450, 7000

c. 6200, 7750

d. 6500, 4950

e. None of these

32. How many kg of rice variety 1 costing Rs.48/kg should a shopkeeper mix with 20 kg of rice variety 2 costing Rs.56 per kg so that he makes a profit of 20% on selling the mixture at Rs.62.4/kg?

a. 10 kg

b. 15 kg

c. 12 kg

d. 20 kg

e. 24 kg

33. The price of the article is reduced by 25% but the daily sale of the article is increased by 30%. Find the net effect of the daily sell receipt?

a. 2.5% decrease

b. 3% increase

c. 1.5% decrease

d. 2.5% increase

e. None of these

34.80% of a smaller is 4 less than 40% of larger number. The larger number is 85 greater than the smaller one. What is the sum of these two numbers?

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a. 180

b. 220

c. 235

d. 200

e. None of these

35. Two-fifth of one-third of three seventh of a number is 15.What is 40% of that number?

a.501

b.105

c.525

d.150

e. None of these

36. The length and breadth of a rectangle are increased by 20% and 30%.The area of the resulting rectangle exceeds the area of the original rectangle?

a.50%

b.65%

c.56%

d.156%

e. None of these

37. Sugar contain 5% water .What quantity of pure Sugar should be added to 10 litres of water to reduce this to 2%?

a.5lit

b.6lit

c.10lit

d.15lit

e. None of these

38. In an election between 2 candidates, Candidate who gets 40% of the total vote defeated by 15000.The no of votes polled by winner

a.10000

b.45000

c.30000

d.6000

e. None of these

39. If the price of petrol increases by 20% and Novena intends to spend only an additional 10% on petrol, by how much percent will she reduce the quantity of petrol purchased?

a. 8%

b. 7 ¼%

c. 8 1/3%

d. 9%

e. None of these

40. A man spends 20% of his income on food, 15% on children's education 25% on shopping ,10% on house rent and saves the remaining. What is his income?

a. Rs 25000

b. Rs18000

c. Rs23000

d. Rs30000

e. None of these

41.A spends his money from his saving in different way that is he spends 35% on hotel,20% on food and 25% on purchase and after that all expenditure he saved 7200.Find the how much he spent on Purchase?

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a. Rs9000

b. Rs8500

c. Rs7600

d. Rs9200

e. None of these

42.In an election a person wins over another one by a marginal difference of 680 votes which 17% of total votes. In election 15% votes are invalid. Find the valid votes?

a. 3500

b. 4100

c. 3400

d. can't be determined

e. None of these

43. The price of sugar is reduced by 3%.How many kg of sugar can now be bought for the money which was sufficient to buy 50kg of rice earlier ?

a. 50kg

b. 55kg

c. 51.5kg

d. 56kg

e. None of these

44. Fresh fruits contains 70% of water and dry fruits contain 20% of water.How much dry fruit can be obtained from 100kg of fresh fruits ?

a. 35

b. 37

c. 37.5

d. 40

e. None of these

45. If 25% of four-fifth of 30% of a number is 301.5, what is the number?

a. 4820

b. 5025

c. 5120

d. 5335

e. None of these

46. A reduction of 20% percent in the price of rice enables a housewife to buy 5 kg more for rupees 1200. The reduced price per kg of rice?

a. 36

b. 45

c. 48

d. 60

e. None of these

47. A got 30% of the maximum marks in an examination and failed by 10 marks. However, B who took the same examination got 40% of the total marks and got 15 marks more than the passing marks. What were the passing marks in the examination?

a. 65

b. 75

c. 80

d. 90

e. None of these

48. What is the percentage change in the result when we add 45 to a certain number x, instead of subtracting 45 from the same number x?

a. 8

b. 15

c. 10

d. Cannot be determined

e. None of these

49. If the price of an article is increased by 15%, then by how much the household should decrease their consumption so as to keep his expenditure same?

a.13(1/23)%

b.13(2/23)%

c.11(1/23)%

d.11(2/23)%

e.None of these

50. Out of total monthly salary of Mahesh, he spends 25% of his monthly salary on Rent and 20 % on travelling expenses. 40 % of the remaining monthly salary for food and while the remaining salary is saved which is equal to Rs. 16500, then find his monthly salary?

a. Rs. 45000

b. Rs. 50000

c. Rs. 60000

d. Rs. 40000

e. None of these

Answer with Detailed Solution

Solution (1-50)

1. A

20% of a = b => (20/100)a = b

b% of 20 =(b/100) x 20 = (20a/100) x (1/100) x (20) = 4a/100 = 4% of a.

2. B

Increase in 10 years = (262500 - 175000) = 87500.

$$\text{Increase\%} = \left(\frac{87500}{175000} \times 100\right)\% = 50\%.$$

$$\therefore \text{Required average} = \left(\frac{50}{10}\right)\% = 5\%.$$

3. C

Explanation Let the candies with be (x + 15) and x.

Therefore, x + 15 = 60/100(x + 15 + x)

(x + 15) = 3/5(2x + 15)

5x + 75 = 6x + 45

x = 30

So, the marks of two students are 45 and 30

4. D

Explanation: Suppose originally he had x oranges.

Then, (100 - 30)% of x = 140.

70/100 x = 140

x = (140 x 100)/70 = 200.

5. A

Given that the student got 125 marks and still he failed by 40 marks

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=> The minimum pass mark = 125 + 40 = 165

Given that minimum pass mark = 33% of the total mark

=> Total mark =33/100 =165

=> Total mark = 16500/33 = 500

6. A

Milk and water ratio = 4:1

Given,

(4x-16)/(x-4+20) =12/13

13x-52 = 3x+48

=>10x=100=>x=10

Initial quantity of milk in the vessel= 40 litres

7. B

Let us take initial quantity of a container be x

Remaining milk = Initial (1-Replaced/Initial)n

12.8= x (1-4/x)^2

12.8x=x2+16-8x

5X2-104x+80=0

Simplify the above equation, we get x= 20 and 0.8 (Eliminate)

8. D

$$5\% \text{ of } A + 4\% \text{ of } B = \frac{2}{3} (6\% \text{ of } A + 8\% \text{ of } B)$$

$$\Rightarrow \frac{5}{100}A + \frac{4}{100}B = \frac{2}{3}\left(\frac{6}{100}A + \frac{8}{100}B\right)$$

$$\Rightarrow \frac{1}{20}A + \frac{1}{25}B = \frac{1}{25}A + \frac{4}{75}B$$

$$\Rightarrow \left(\frac{1}{20} - \frac{1}{25}\right)A = \left(\frac{4}{75} - \frac{1}{25}\right)B$$

$$\Rightarrow \frac{1}{100}A = \frac{1}{75}B$$

$$\frac{A}{B} = \frac{100}{75} = \frac{4}{3}$$

∴ Required ratio = 4 : 3

9. A

Number of valid votes = 80% of 7500 = 6000.

Valid votes polled by other candidate = 45% of 6000

$$= \left(\frac{45}{100} \times 6000\right) = 2700.$$

10. C

Let their marks be (x + 9) and x.

X+9=56/100(2x+9)

25(x + 9) = 14(2x + 9)

3x = 99

x = 33

So, their marks are 42 and 33

11.D

Suppose originally he had x apples.

Then, (100 - 40)% of x = 420.

$$\Rightarrow \frac{60}{100} \times x = 420$$

$$\Rightarrow x = \left(\frac{420 \times 100}{60}\right) = 700.$$

12. A

Let the original price be Rs. 100.

New final price = 120 % of (75 % of Rs. 100) = Rs. (120/100 * 75/100 * 100) = Rs. 90.

Decrease = 10%

13. D

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Present population = 160000 * (1 + 3/100)(1 + 5/200)(1 + 5/100)

= 177366.

14. D

x = 80 % of y

=> x =(80/100)y

=> y/x = 5/4

Required percentage = [(y/2x)*100] % = (5/8*100) % =62.5%

15. A

Saving = 50% of (100 - 40)% of (100 - 30)% of Rs. 18,400

= Rs. (50/100 * 60/100 * 70/100 * 18400)

= Rs. 3864.

16. C

Let the number be x, Then

75% of x + 75 = x

=> x - 75x/100 =75

=> x = 300 .

17. A

Total no. of votes polled = (1800 + 3300 + 3900) = 9000.

Required percentage = (1800/9000 * 100)% = 20%.

18. D

Suppose originally he had x units.

Then, (100 - 65)% of x = 175.

35/100 x = 175

x = 500

19. B

Population increase in 10 years = (22500- 18000) = 4500.

Increase% = (4500/18000 x 100)% = 25%

Required average = (25/10)% = 2. 5%

20. B

Let the large number be x.

Then x - 20 = 20x/100

=> x - x/5 = 20

=> x = 25

21. B

Let the number be x. Then, x-(2/5)x = 510

=> 3x/5 =510

=>x =[510 * (5/3)]
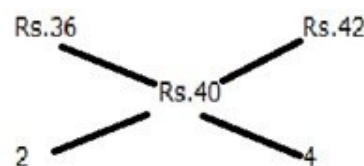
=850

10 % 0f 850

= 85.

22. A

CP of Mixture = 44/110*100=Rs.40

Required ratio = 1:2

23. A

Required amount = 800

From her brother she got = 800 x 20/100 = 160

From her mother she got = (800-160) * 30/100 = 640 * 30/100 = 192

From the Bank she got Rs. 200

∴ Now she needs 800 - (160 + 192 + 200)

= 800 - 552 = Rs. 248 more

24. D

Let the two numbers be Y and Z, such that

15% of Y = 21% of Z

Then, 18% of Y = ? % of Z

15% of Y = 21% Z

18% of Y = ? % of Z

∴ 15 x ? = 21 x 18

∴ ? = $\dfrac{21 \times 18}{15}$ = 25.2%

25. C

Total votes = a.

This means that, Votes of candidate 1 + Votes of candidate 2 = a

We know that, Votes of candidate 1 = 40% of a = $\dfrac{40a}{100}$

Hence, Votes of candidate 2 = (100% - 40%) of a = $\dfrac{60a}{100}$

60% of a =

1st candidate lost by 1000 votes = difference of votes between both candidates

∴ $\dfrac{60a}{100} - \dfrac{40a}{100} = 2000$

∴ a = 10,000.

26. C

Population after 4 years = 60,000 $\left(1 + \dfrac{10}{100}\right)^4$

= $\dfrac{60,000 \times 11 \times 11 \times 11 \times 11}{10 \times 10 \times 10 \times 10}$ = 87,846

27. B

The original fraction is x/y➜x*250/y*450=25/51

= 15/17.

28. B

n (A) = 34, n (B) = 42, n (A ∩ B) = 20.

So, n (A U B) = n (A) + n(B) - n(A ∩B) = 34 + 42 - 20 = 56.

Percentage failed in either or both the subjects = 56.

Hence, percentage passed = (100 - 56)% = 44%.

29. A

Given 15% of x = 20% of y

=> 15x = 20y

=> x/y = 20/15

=> x : y = 4 : 3

30. C

80/100 + 66/100 + x/200 = 320/400

=>x = 174

=> 87%

31. C

Let two numbers be x and y.

It is given that, 8 % of x = 10 % of y

Therefore

x = $\dfrac{10}{\_\_}$ y = 5 y

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8   4

Difference between two numbers $(x – y) = 1550$

Substituting the value of x, we get

$$\frac{5}{4} – y = 1550$$

$$\frac{y}{4} = 1550$$

$$y = 1550 \times 4 = 6200$$

$$x = \frac{5}{4} \times 6200 = 7750$$

32. D

CP of mixture = 62.4/120*100=Rs.52

Rs.48   Rs.56

        Rs.52

4   4

Required ratio = 4:4 = 1:1

Required kg = 20/1*1=20 kg

33. A

Let the daily sale be Rs.100

100 *(75/100)*(130/100) =97.5

Decrease = 100 – 97.5 = 2.5%

34. C

Let the smaller no. be x and the larger number be y .

$0.8x + 4 = 0.4y$

$=> 4y – 8x = 40$

and $y – x = 85$

$=> x = 75$ and $y = 160$

$x + y = 235$

35. B

$:(2/5)(1/3)(3/7) \times x = 15.$

$X = (15 \times (7/3) \times (5/2) \times 3) = 525/2.$

40% of $x = (40/100)(525/2) => 105.$

36. C

$:(120/100) \times (130/100) \times 100 = 156.$

$156 - 100 = 56.$

37. D

$0.5/(x+10) = 2/100.$

$2x = 30$

$X = 15.$

38. B

40%-looser,60%-winner, defeated 15000=20%

Winner=60%=15000×3=45000.

39. C

Let the price of the petrol be Rs 100.

Now New Price is 120.

She intend to spend is Rs 110.

Amount become 120-110=10

10/120*100 = 8 1/3 % Reduction

40. C

let his income be 100%

Then spend (20+15+25+10)=70%

Remaining 30% saving

30== 6900

100 ? == Rs23,000

41. A

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The total income as 100% so ,(100% – 35%+20%+25%)

= 80%

And now (100% –80%) = 20%

Purchase 7200 x 25 / 20 = 9000.

42. C

17% of votes =680

Then, total votes =4000

Out of this, 15% were invalid = 4000*(15/100) =600

Then the total valid votes =3400

43. C

Let one kg of sugar earlier = Rs. 100

50 kg of sugar earlier = Rs. 5000

Now 1 kg of sugar = Rs.97

Quantity to buy now = 5000/97 = 51.5kg

44. C

Quantity of pulb in 100kg of fresh fruit = (100 – 70) ×100= 30kg

Quantity of dry fruit be x kg

(100 – 20) % of x = 30

(80/100) x = 30

X = (30 × 100)/80 = 37.5

45. B

25% of four-fifth of 30% of a number is 301.5

Let the number be x.

25/100 * 4/5 * 30/100*x=301.5

X=5025.

46. C

let original price is x rupees per kg

1200/(4x/5) – 1200/x = 5

We will get x = 60, so reduced price = (4*60)/5 = 48

47. E

(30/100)*T = P -10

(40/100)*T = P + 15

U will get P = 85

48. D

Option D, Cannot be determined.

49. A

Decrease in expenditure = (15/115)*100 = 300/23 %=13 1/3%

50. B

Let the monthly salary of Mahesh be x,

X*(55/100)*(60/100) = 16500

X = 16500*(100/55)*(100/60)

X = Rs. 50000

Monthly salary of Mahesh = Rs. 50000