IBPS Clerk Prelims Memory Based Quantitive Paper

DirectionsDirections (1-5) : The table below show the data of total functions organized in three different Halls A,B, and C in 3 different months. Study the table and answer the given questions.

Month	Hall A	Hall B	Hall C
April	45	35	32
May	60	20	48
June	52	40	27

Q1. What is ratio of total number of functions organized in hall B during May and June to the total number of functions organized in Hall C during April and May ?
(a) 3 : 4
(b) 5 : 7
(c) 2 : 5
(d) 6 : 7
(e) None of these

Q2. What is the approximate average numbers of functions organized in the month of May in Hall A, Hall B and Hall C ?
(a) 58
(b) 52
(c) 46
(d)43
(e) 40

Q3. There is another Hall D, number of functions in Hall D in May is 25% more than the Hall A in the same month and number of functions in Hall D in June is 25% less than the Hall B in the same month. Find the total number of functions in hall D during May and June.
(a) 110
(b) 95
(c) 105
(d) 100
(e) None of these

Q4. Total functions organized in Hall A during April and May together is what percent of total functions organized in Hall C during May and June.
(a) 120 %
(b) 140%
(c) 150%
(d) 145%
(e) None of these

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Q5. In July, number of functions in Hall A, Hall B and Hall C is increased by 25%, decreased by 12.5% and increased by 33 1/3% respectively. Find the total number of functions in July in all three Halls together.
(a)153
(b) 136
(c) 146
(d) 140
(e) None of these

6.
$7\frac{3}{6}$ of 534 + 262 = 61800 – ?
(a) 56533
(b) 57533
(c) 58533
(d) 37355
(e) None of these

7. 72% of 486 – 64% of 261 = ?
(a) 184.66
(b) 183.66
(c) 188.88
(d) 182.88
(e) 186.24

8. ? ÷ 62 × 12 = 264
(a) 1364
(b) 1284
(c) 1348
(d) 1388
(e) None of these

9. (−251 × 21 × −12) ÷? = 158.13
(a) 250
(b) 400
(c) 300
(d) 150
(e) None of these

10. 25.6% of 250 + √? = 119
(a) 4225

(b) 3025
(c) 2025
(d) 5625
(e) None of these

11. (560 ÷ 32) × (720 ÷ 48) =?
(a) 262.5
(b) 255
(c) 263.5
https://www.freshersnow.com/
(d) 271.25
(e) None of these

12. 3.2% of 500 × 2.4% of ? = 288
(a) 650
(b) 700
(c) 600
(d) 750
(e) None of these

13.

$\sqrt[3]{?} = (28 \times 24) \div 14$

(a) 85184
(b) 140608
(c) 97336
(d) 117649
(e) None of these

14. 36% *of* 245 − 40% *of* 10 = 10− ?
(a) 4.2
(b) 6.8
(c) 4.9
(d) 5.6
(e) None of these

15. 175% of 460 + 110% of 170 + 2power? = 1000
(a) 3
(b) 4
(c) 5

(d) 2
(e) 1

16. The length and the breadth of a rectangle are increased in the ratio of 4 : 5 and 5 : 6 respectively. What is the ratio of the old area to the new one of the rectangle?
(a) 1 : 2
(b) 3 : 4
(c) 4 : 5
(d) 2 : 3
(e) 5 : 6

17. Milk and water are mixed in vessel A in the ratio of 5:2 and in vessel B in the ratio of 8 : 5. In what ratio should quantities be taken from the two vessels so as to form a mixture in which milk and water will be in the ratio of 9 : 4?
(a)7 : 2
(b)5 : 2

(c)2 : 7
(d)2 : 5
(e)None of these

18. D, S and A started a business each investing 20000 Rs after 4 month D withdraws Rs. 6000, S withdraws 8000 and A invest 6000 more. At the end of year total profit was 65600 Rs. Find the share of A?
(a) Rs.19200
(b) Rs.28800
(c) Rs.28600
(d) Rs.27600
(e) Rs.25760

19. In 30 litres of milk and water, water is only 20%. How many litres of water should be added to it to increase the percentage of water to 60% ?
(a) 24 litres
(b) 6 litres
(c) 20 litres
(d) 30 litres
(e) None of these

20. Same amounts are invested in two scheme with 8% interest for 2 years, one scheme at S.I. and another scheme at CI. If he received 41875.2 Rs. after 2 years then find the simple interest he earned.
(a) 3880

(b) 2000
(c) 2400
(d) 2500
(e) 2880

21.A can do a piece of work in 10 days. B can do it in 24 days. If C also works with them then it takes only 6 days to complete the whole work. In how many days C alone can complete the whole work?
(a) 25
(b) 40
(c) 50
(d) 75
(e) None of these

22. Krishna covers a certain distance by train at 25 km/hr. and the equal distance on foot at 4 km/hr. If the time taken by him for the whole journey be 5 hrs and 48 minutes, how much total distance did he cover?
(a) 30 km
(b) 40 km
(c) 25 km
(d) 35 km
(e) None of these

23. The ratio of age of Satish and his son is 7 : 2. If the difference of their ages 7 year ago is 25. Then find the sum of ages of Satish and his son 12 year hence ?
(a) 79
(b) 72
(c) 69
(d) 59
(e) 63

24. 3 years ago, the average of Mohan's family having 5 members was 17. Presently there are six members in the family but average age of Mohan's family remains unchanged. Find age of the new member?
(a) 5 yrs
(b) 3 yrs
(c) 4 yrs
(d) 1 yrs
(e) 2 yrs

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25. Speed of current is 25% of speed of boat in still water, if boat travelled 45 km downstream and returned back in total 12 hr. Then find speed of boat in still water?
(a)4 km/hr
(b)8 km/hr
(c)6km/hr
(d)10km/hr
https://www.freshersnow.com/
(e)12km/hr

Directions (26-30) What should come in place of question mark (?) in the following given questions?(Note: You need not to calculate the exact value.)

26. 33.99√?+ 42.0032√? = (76/ 12.998)× (?)
(a) 81
(b) 72
(c) 169
(d) 121
(e) 144

27. (5.2)power2 + (4.8)power2 + (8.13)power2 + (4.94)power2 =?
(a) 140
(b) 130
(c) 150
(d) 110
(e) 160

28. √360.98 × 18.99 + 1082.98 ÷ 57.07 =?
(a)372
(b) 380
(c)386
(d) 389
(e)390
29. 94.95×13.03+√35.98 × 14.99 = 53 × √?
(a)25
(b) 144
(c)225
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(d) 625
(e)900

30. (333% of 856)÷49.95=?
(a)43

(b) 41
(c)47
(d) 39
(e)57

Directions (31-35): In each of these questions a number series is given. In each series only one number series is given. In each series only one number is wrong. Find out the wrong number.

Q31. 1, 1.5, 3, 7.5, 22.5, 75, 315
(a) 3
(b) 7.5
(c) 22.5
(d) 75
(e) 315

Q32. 4, 8, 24, 96, 485, 2880, 20160
(a) 24
(b) 8
(c) 96
(d) 20160
(e) 485

Q33. 150, 900, 300, 1800, 600, 3700, 1200
(a) 900
(b) 150
(c) 3700
(d) 1200
(e) 300

Q34. 100, 101, 126, 207, 376, 660, 1106
(a) 660
(b) 376
(c) 1106
(d) 101
(e) 100

Q35. 100, 125 143, 169, 198, 230, 265
(a) 265
(b) 230

(c) 143

(d) 100
(e) 125

Answers

Ans 1. (a) Required ratio = $\frac{20+40}{32+48} = \frac{60}{80} = 3:4$

Ans 2.(d) Req. Average = $\frac{60+20+48}{3} = \frac{128}{3} = 42.66 \approx 43$

Ans 3. (c) Function in Hall D during May = $\frac{125}{100} \times 60 = 75$

Function in Hall D during May = $\frac{75}{100} \times 40 = 30$

Total functions = 75+30 = 105

Ans 4. (b) Total functions organized in Hall A during April and May = 45+60 = 105

Total functions organized in Hall C during May and June = 48 + 27 = 75

Req. Percentage = $\frac{105}{75} \times 100 = 140\%$

Ans 5. (b) Total No. of Functions in July

= [52+ 25% of 52] + [(40 – (12.5% of 40)] + [27 + 33(1/3)% of 27]

= (52 + 13) + (40 – 5) + (27 + 9)
= 65 + 35 + 36 = 136

6. Ans.(b)

Exp.

$\frac{45}{6} \times 534 + 262 = 61800 - ?$

$4005 + 262 = 61800 - ?$

$? = 57533$

7. Ans.(d)

Exp. $? = 349.92 - 167.04 = 182.88$

8. Ans.(a)

Exp.

$\frac{?}{62} \times 12 = 264$

$? = 1364$

9. Ans.(b)

Exp.

$? = \frac{251 \times 21 \times 12}{158.13} = 400$

10. Ans.(b)

Exp.

$\sqrt{?} = 119 - \frac{25.6}{100} \times 250$

$\sqrt{?} = 55 , ? = 3025$

11.. Ans.(a)

Exp.

$? = 17.5 \times 5 = 262.5$

12. Ans.(d)

Exp.

$16 \times \frac{2.4}{100} \times ? = 288$

$? = 750$

13. Ans.(e)

Exp.

$\sqrt[3]{?} = \frac{28\times24}{14}$

$\sqrt[3]{?} = 48$

$? = 110592$

14. Ans.(e)

Exp.

$88.2 - 4 = 10 - ?$

Or, ? = -74.2

15. Ans.(a)

Exp.

$805 + 187 + 2^{?} = 1000$

Or, $2^{?} = 8$

Or, ? = 3

16. Ans. d

Let the original length and the breadth of rectangle be 4x and 5y respectively

⇒ Old area of rectangle = 20xy

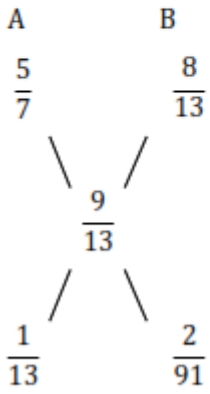
New length and breadth of the rectangle are 5x and 6y, respectively

⇒ New area of the rectangle = 30xy

Required ratio = 20xy : 30xy = 2 : 3

17. Ans. a

Exp.



Required Ratio $= \frac{1}{13} : \frac{2}{91} = 7 : 2$

18. Ans. b

Ratio capital of D, S and A

= (20000 × 4 + 14000 × 8) : (20000 × 4 + 12000 × 8) : (20000 × 4 + 26000 × 8)

= 192000 : 176000 : 288000

$$\text{A Share} = 65600 \times \frac{288}{656}$$

$$= \text{Rs. } 28800$$

19. Ans. d

Exp.

Let x litres of water be added.

Then, $\frac{x+6}{30+x} = \frac{3}{5}$

or, $5(x + 6) = 3(30 + x)$

or, $5x + 30 = 90 + 3x$

or, $5x - 3x = 90 - 30$

or, $2x = 60$

$\therefore x = \frac{60}{2} = 30$ litres

20. **Ans. e**

Let amount is → 100

Then after two year

S.I. → 16

C.I. → 16.64

$$\frac{41875.2}{232.64} \times 16 = 2880$$

21. Ans. b

According to the question,

Let C alone can complete in x day

$$\frac{1}{10} + \frac{1}{24} + \frac{1}{x} = \frac{1}{6}$$

$$\frac{1}{x} = \frac{1}{6} - \left[\frac{1}{10} + \frac{1}{24}\right]$$

$$= \frac{40 - [24 + 10]}{240} = \frac{6}{240}$$

$\therefore$ x = 40 days

22.Ans. b

Total distance = x km

Distance by train $= \frac{x}{2}$ km

Distance by Feet $= \frac{x}{2}$ km

Time taken to cover $\frac{x}{2}$ by train $= \frac{x}{50}$ hours

Time taken to cover $\frac{x}{2}$ by foot $= \frac{x}{8}$ hours

$\frac{x}{50} + \frac{x}{8} = 5\frac{48}{60}$

$x = 40$km

23. Ans. c
Let the present age of Satish and his son be 7x and 2x respectively.
7x – 2x = 25
∴ x = 5
∴ Required sum = 9 × 5 + 24 = 69

23. Ans. c
Let the present age of Satish and his son be 7x and 2x respectively.
7x – 2x = 25
∴ x = 5
∴ Required sum = 9 × 5 + 24 = 69

24. Ans. e

Sum of ages of 5 members 3 years ago = 17 × 5 = 85

Present sum of ages of 5 members = 85 + 5 × 3 = 100

Present sum of ages of all members of Mohan's family = 17 × 6 = 102

∴ Baby's age = 102 – 100 = 2 years.

25. Ans. b

Exp.
speed of boat in still water : Speed of current

= 100X : 25X

= 4X : X

$$\frac{45}{4X + X} + \frac{45}{4X - X} = 12$$

$$\frac{135 + 225}{15X} = 12$$

$$X = \frac{360}{180} = 2$$

Speed of boat in still water = 4 × 2 = 8 km/hr

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26. Ans.(c)

Exp. $34\sqrt{x} + 42\sqrt{x} = \frac{76}{13} \times x$

$76\sqrt{x} = \frac{76}{13} \times x$

$\sqrt{x} = 13$

$x = 169$

27. Ans.(a)

Exp. $\approx 27 + 23 + 66 + 24 = 140$

28. Ans.(b)

Exp. $\approx 19 \times 19 + 19$

$\approx 19 \times 20$

≈ 380

29. Ans.(d)

Exp. $1235 + 6 \times 15 = 53 \times \sqrt{x}$

$\sqrt{x} = 25$

$x = 625$

30. Ans.(e)

Exp. $\frac{2850}{50} = 57$

Ans 31(d)
1 x 1.5 = 1.5
1.5 x 2 = 3
3 x 2.5 = 7.5
7.5 x 3 = 22.5
22.5 x 3.5 = 78.75 **not 75**
78.75 x 4 = 315

Ans.32(e)
4 x 2 = 8
8 x 3 = 24

24 x 4 = 96
96 x 5 = 480 **not 485**
480 x 6 = 2880
2880 x 7 = 20,160

Ans.33(c)
150 x 6 = 900
900 ÷ 3 = 300
300 x 6 = 1800
1800 ÷ 3 = 600
600 x 6 = 3600 **not 3700**
3600 ÷ 3 = 1200

34. A
Ans.35(e)