

Percentage Most Asked Common Questions (Last 5 years)

Q1. In a city, 68% of population is literate in which ratio of male to female is 11:6. And ratio of illiterate male to female is 3: 1 . Find the ratio of literate female to illiterate female in that city?

- (a) 3:2
- (b) 2:1
- (c) 3:1
- (d) 4:1
- (e) 5:2

Q2. Value of B is 45 and $A - B = 30$. Find the value of 20% of A.

- (a) 22
- (b) 24
- (c) 20
- (d) 15
- (e) 18

Q3. Neha gives 60% of her salary to her mother. From her share, her mother spends 40% on grocery and remaining 86400 Rs. she saved. find Neha's salary.

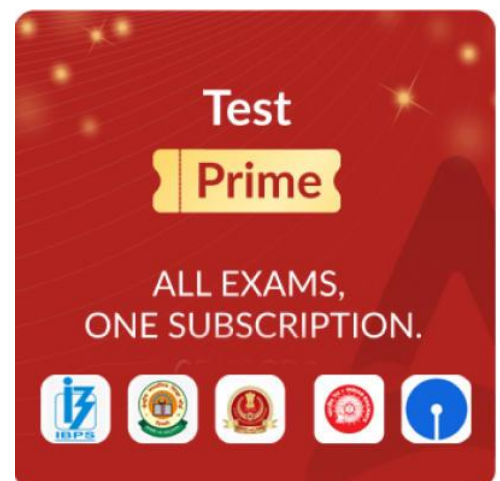
- (a) 240000
- (b) 280000
- (c) 250000
- (d) 220000
- (e) 244000

Q4. X's salary is 20% more than Y's salary and Z's salary $16\frac{2}{3}\%$ more than X's salary. 30% of Y's salary is what percent of the $28\frac{4}{7}\%$ of Z's salary.

- (a) 75%
- (b) 60%
- (c) 30%
- (d) 50%
- (e) 40%


Q5. In a class percentage of students who passed the exam is 60% and number of boys & girls who passed the exam is same. If boys who failed the exam are 200% more than girls who failed in exam then find the percentage of girls who failed out of total students

- (a) 9%
- (b) 13%
- (c) 10%
- (d) 12%
- (e) 15%



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Q6. Sonali spent 25% of her monthly salary on house rent and 30% of her monthly salary on clothing. She gave 40% of her remaining monthly salary to her mother. If her remaining monthly salary is Rs.10800, then find her monthly salary?

- (a) Rs.40000
- (b) Rs.35000
- (c) Rs.39000
- (d) Rs.45000
- (e) Rs.30000

Q7. In year 2016, ratio of boys to girls in a school is 36:19. And in year 2017, number of boys is increased by 1440 and number of girls is increased by 15%. If in 2017, there were total increase in the number of students is 1725 then find the increased number of boys in the school.

- (a) 7240
- (b) 5440
- (c) 6040
- (d) 4440
- (e) 5040

Q8. The population of a village is decreased by 10% in the first year and then increased by 20% in the second year. Find the population of the village at the end of the second year if two years ago it was 15,000?

- (a) 16180
- (b) 16200
- (c) 16320
- (d) 16360
- (e) 16480

Q9. A and B both spend 30% of their income together which is equal to Rs. 26400. If income of A is 20% more than that of B, then find the income of B (in Rs.)?

- (a) 52000
- (b) 48000
- (c) 40000
- (d) 36000
- (e) 30000

Q10. If 45% of X is equal to 60% of Y and the average of both the numbers is 20 less than the X, then find 60% of Y?

- (a) 108
- (b) 64
- (c) 72
- (d) 96
- (e) 80

Q11. The monthly income of Kisan is 40% more than Vimal and Vimal monthly income is 15% less than Uday. If total annual income of Vimal Rs. 345000, then find the monthly income of Kisan.

- (a) Rs. 40890
- (b) Rs. 40740
- (c) Rs. 40250
- (d) Rs. 40550
- (e) Rs. 40180

Q12. 40% of 'x' is equal to 30% of 'y'. If average of x & y is 30 more than x, then find 75% of the 'y'?

- (a) 180
- (b) 150
- (c) 240
- (d) 210
- (e) 360

Q13. In an election only two candidates participate. Candidate 'P' got 50% less votes than 'Q'. Had Q got 200 votes less there would have been a tie. What is the 8 times of the number of total votes polled?

- (a) 800
- (b) 7200
- (c) 3200
- (d) 9600
- (e) 3600

Q14. The population a city after three years will be 21,600. If rate of increase of population per year be 20% then find the present population of the city?

- (a) 12,500
- (b) 16,500
- (c) 14,500
- (d) 10,500
- (e) 11,600

Q15. There are 200 students in a class in which 64% are boys. If monthly fee of each boy is Rs. 250 and monthly fee of each girl is 20% less than that of each boy, then find total fee (in Rs.) paid by boys and girls?

- (a) 46400
- (b) 42400
- (c) 48400
- (d) 42500
- (e) 41400

Q16. A student got 65% marks out of maximum marks which is 300 in the three different exams P, Q and R. If he got 55% marks in P, 65% marks in Q and the maximum marks of each subject is same, then find the marks in R.

- (a) 78
- (b) 72
- (c) 75
- (d) 80
- (e) 82

Q17. For post A, total people applied are 50% more than total people applied for post B. Number of girls applied for both posts are same. If for post A, 70% boys applied, then find the percentage of girls applied for post B.

- (a) 20%
- (b) 30%
- (c) 50%
- (d) 45%
- (e) 35%

Q18. Three friends P, Q and R has Rs. X. Q has 20% more than the P and R has Rs. 1000 more than that of Q. If R has Rs. 7000, then find the value of X.

- (a) Rs. 16000
- (b) Rs. 12000
- (c) Rs. 11000
- (d) Rs. 15000
- (e) Rs. 18000

Q19. If nominator of a fraction is increased by 60% and denomination is decreased by 20%, then the fraction becomes $\frac{5}{6}$. Find the original fraction.

- (a) $\frac{7}{5}$
- (b) $\frac{4}{5}$
- (c) $\frac{5}{9}$
- (d) $\frac{3}{5}$
- (e) $\frac{5}{12}$

Q20. The difference of two positive numbers is 2. If 50% of bigger number is equal to 60% of smaller number, then find the bigger number?

- (a) 12
- (b) 10
- (c) 9
- (d) 14
- (e) 16

Q21. In April 2019, a man has Rs 17500 and it is increased by 20% every year in the starting of April. If man spends 60% of total amount in April 2021, then find total amount (in Rs.) man has at the end of April 2021?

- (a) 15120
- (b) 10060
- (c) 9080
- (d) 10080
- (e) 12080

Solutions

S1. Ans.(c)

Sol. Let the total population of that city be $100x$

Then literate population = $68x$

Literate male = $68x \times \frac{11}{17} = 44x$

Literate female = $24x$

Illiterate population = $32x$

Illiterate female = $32x \times \frac{1}{4} = 8x$

Required ratio = $\frac{24x}{8x} = 3:1$

S2. Ans.(d)

Sol. $B = 45$

$A - B = 30$

$A - 45 = 30$

$A = 75$

Now,

Required value = $\frac{20}{100} \times 75 = 15$

S3. Ans.(a)

Sol. Let Neha salary be $100x$

$\Rightarrow 100x \times \frac{60}{100} \times \frac{60}{100} = 86400$

$\Rightarrow 100x = 2,40,000$

S4. Ans.(a)

Sol. Let Y's salary = $5x$

So X's salary = $\frac{5x \times 120}{100} = 6x$

And Z's salary = $\frac{6x \times 7}{6} = 7x$

Required percent = $\frac{\frac{30}{100} \times 5x}{\frac{28}{100} \times 7x} \times 100$

$= \frac{1.5x}{2x} \times 100 = 75\%$

S5. Ans.(c)

Sol. Let total students be $100x$

Then passed students be $60x$

Passed boys & girls are $30x$ each.

Let failed girls = y

Now,

$y + 3y = 40x$

$4y = 40x$






$y = 10x$

Required percentage = 10%

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S6. Ans.(a)

Sol. Let Sonali's total monthly salary be Rs.100x

So, amount spent by Sonali on house rent = $100x \times \frac{25}{100} = \text{Rs.}25x$

So, amount spent by Sonali on clothing = $100x \times \frac{30}{100} = \text{Rs.}30x$

Amount given by Sonali to her mother = $\frac{40}{100} \times (100x - (25x + 30x)) = \text{Rs.}18x$

ATQ,

$$100x - (25x + 30x + 18x) = 10800$$

$$x = 400$$

Hence, Sonali's monthly salary = $100 \times 400 = \text{Rs.}40000$

S7. Ans.(e)

Sol. Let the number of students in the exam be 55x

Then number of boys = 36x

Number of girls = 19x

ATQ

$$55x + 1725 = (36x + 1440) + 19x \times 1.15$$

$$x = 100$$

Increased number of boys = $3600 + 1440 = 5040$

S8. Ans.(b)

Sol. required population = $15000 \times 0.9 \times 1.2$
 $= 16200$

S9. Ans.(c)

Sol. Let total income of B = 100x Rs.

So, total income of A = $100x \times \left(1 + \frac{20}{100}\right) = 120x \text{ Rs.}$

ATQ -

$$(100x + 120x) \times \frac{30}{100} = 26400$$

$$66x = 26400$$

$$x = 400 \text{ Rs.}$$

So, income of B = $400 \times 100 = 40000 \text{ Rs.}$

S10. Ans.(c)

Sol. ATQ -

$$45 \times \frac{X}{100} = 60 \times \frac{Y}{100}$$

$$3X = 4Y \dots \dots \dots (i)$$

$$\text{And } \frac{X+Y}{2} = X - 20$$

$$X - Y = 40 \dots \dots \dots (ii)$$

From (i) and (ii)

$$Y = 120$$

$$60\% \text{ of } Y = 120 \times \frac{60}{100} = 72$$

S11. Ans.(c)

Sol. Let monthly income of Vimal = $85x$
 Monthly income of Kisan = $85x \times \frac{140}{100} = 119x$
 And Monthly income of Uday = $85x \times \frac{100}{85} = 100x$
 Monthly income of Vimal = Rs. $\left(\frac{345000}{12}\right) = \text{Rs. } 28750$
 So, monthly income of Kisan = $\frac{28750}{85} \times 119 = \text{Rs. } 40250$

S12. Ans.(a)

Sol. ATQ, $40 \times \frac{x}{100} = 30 \times \frac{y}{100}$
 $4x = 3y$(i)
 And $\frac{x+y}{2} = x + 30$
 $y - x = 60$ (ii)
 From (i) and (ii)
 $y = 240$
 75% of second number = 180

S13. Ans.(d)

Sol. Q got = $100x$ votes
 So, P got = $50x$ votes
 Total votes = $150x$ votes
 For tie \rightarrow Q's votes = P's votes = $75x$
 $\Rightarrow 100x - 75x = 200$
 $\Rightarrow x = 8$
 Total votes $\rightarrow 8 \times 150 = 1200$
 Required number = $1200 \times 8 = 9600$

S14. Ans.(a)

Sol. Let present population = P
 $\therefore 21,600 = P \left(1 + \frac{20}{100}\right)^3$
 $P = \frac{21,600 \times 125}{216}$
 $P = 12,500$

S15. Ans.(a)

Sol. Total boys in class = $200 \times \frac{64}{100} = 128$
 Total girls in class = $200 - 128 = 72$
 Fee paid by each girl = $250 \times \frac{80}{100} = 200$
 Required amount = $(250 \times 128 + 200 \times 72) = 46400 \text{ Rs.}$

S16. Ans.(c)

Sol. ATQ,
 Maximum marks in each subject = $\frac{300}{3} = 100$
 Let the marks in R be X%
 $(65 + 55 + R) = 65 \times 3$
 $R = 75$

S17. Ans.(d)

Sol. let total people applied for post B = x

Total people applied for post A = $x + \frac{50}{100} \times x = 1.5x$

Total boys applied for post A = $\frac{70}{100} \times 1.5x = 1.05x$

Total girls applied for post A = $1.5x - 1.05x = 0.45x =$ total girls applied for post B

Required % = $\frac{0.45x}{x} \times 100 = 45\%$

S18. Ans.(e)

Sol. Let the amount P has = Rs. 5000T

Amount with Q = $\frac{6}{5} \times 5000T = 6000T$

ATQ,

$6000T + 1000 = 7000$

$T = 1$

$X = 5000 + 6000 + 7000 = \text{Rs. } 18000$

S19. Ans.(e)

Sol. Let the nominator and denominator be x and y respectively.

$\frac{x \times \frac{160}{100}}{80} = \frac{5}{6}$

$\frac{y \times \frac{100}{100}}{100} = \frac{5}{6}$

$\frac{2x}{y} = \frac{5}{6}$

$\frac{x}{y} = \frac{5}{12}$

S20. Ans.(a)

Sol. Let two numbers be a and b respectively (if a > b)

$a - b = 2$ (i)

$\frac{50}{100} \times a = \frac{60}{100} \times b$

$5a = 6b$(ii)

From equations (i) and (ii) we get

$a = 12$ & $b = 10$

So, bigger number = 12

S21. Ans.(d)

Sol. Information given:

In April 2019, a man has Rs 17500

Amount increased by 20% every year in the starting of April

Man spends 60% of total amount in April 2021

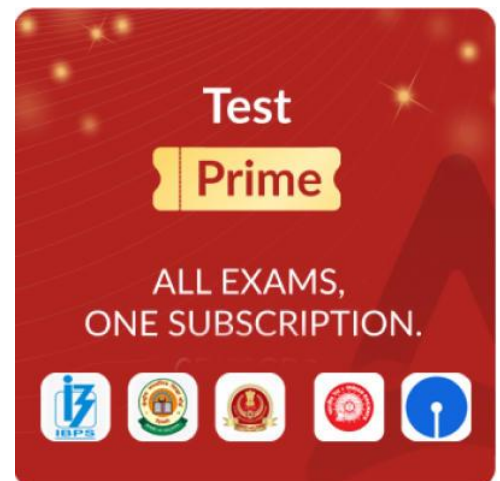
Formula Used:

Final Amount = initial amount $\times [20\% + 20\% + (20 \times 20)/100]$

Explanation:

Total amount in April 2021 = $17500 \times \frac{6}{5} \times \frac{6}{5} = 25200$ Rs

Required amount = $25200 \times \frac{2}{5} = 10080$ Rs



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