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The Question Bank

Percentage Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains, IBPS Clerk Mains & LIC AAO Exams.

Percentage Quiz 15

Direction: Read the following questions carefully and choose the right answer.

1. **A man distributes 10%, 18% and 22% of his salary into his three children who spend 40%, 60% and 25% of that amount respectively. The difference between the total amount left with the children and man is Rs. 1015. What is the salary of the man?**

A. Rs. 6000 B. Rs. 4200 C. Rs. 4800 D. Rs. 5000 E. Rs. 5600

2. **Salary of A is 37.5% of the total salary of A and B. B saves 60% of his salary and total savings of A and B is 50% of their total income. Their average expenditure is Rs 16000. What is the total salary of A and B?**

A. Rs. 96000 B. Rs. 54000 C. Rs. 72000 D. Rs. 64000 E. Rs. 48000

3. **In a class 25% of the students passed in both English and Hindi. 37.5% of the students failed in both the subjects while 60% students failed in Hindi. The difference between the students who passed in English and those who passed in Hindi is 15. What is the total number of students in class?**

A. 180 B. 420 C. 360 D. 200 E. 240

4. **Out of total students 100/3 % are in hostel A and remaining are in hostel B. If 20 students from hostel B are shifted to hostel A, then total students in hostel A becomes 50% of total students. If 20 students from hostel A are shifted to hostel B, then the total students in hostel A becomes what per cent of total students?**

A. 26.34% B. 16.67% C. 12.75% D. 20.67 E. None of these

5. **AB de Villiers smashes 86 runs against Australia in 16 balls. If he only scored in boundaries(fours and sixes) only, then find the maximum percent of runs he scored by hitting fours.**

A.23.25% B. 26.4% C. 74.5% D. 28% E. None of these

6. **On a Big Billion day sale ,Google flagship mobile phone was available at a discount of 20% on Flipkart. The customers who are purchasing for the first time on Flipkart will get additional cashback of 10 % on the billing amount . Suraj being 1st time user of Flipkart purchases the mobile phone for Rs. 36000,find the actual cost price of the mobile phone.**

A. Rs. 50000 B. Rs. 45000 C. Rs. 52250 D. Rs. 47250 E. None of these

7. **A dishonest salesman buys x% more grains than what he pays for ,while selling he uses counterfeit weight which measures 800 grams for every 1000 grams. If he sells the item at 10% above the cost price and earn an overall profit of 65%, then find the value of x.**

A. 20% B.25% C. 35% D. 15% E. None of these

8. **In an exam minimum qualifying marks for class IX and X are 30% and 45% respectively. It is known that total marks of each class are same and a boy of class X scored 1225; thereby failing by 125 marks. Find passing marks for class IX.**

A. 900 B. 1200 C. 1500 D. 925 E. None of these

9. **XYZ publication started with 2000 novels. The printing cost, packaging cost and delivery cost of each novel is Rs. 150, Rs. 20 and Rs. 50 respectively. If 40% of the novels are sold at 3/4th of the cost price, then how much percent above the cost price should the remaining novels be sold to get 20% profit on total expenditure?**

A. 25% B. 20% C. 30% D. 40% E. 50%

10. **As per a company policy only 25% of the female employees and 20% of the male employees can hold the positions higher than level 2. If the ratio of female and male employees in the company is 3 : 2, then find the percentage of employees which are working below level 2..**

A. 75% B. 77% C. 70% D. 72% E. 79%

CORRECT ANSWERS:

1	2	3	4	5	6	7	8	9	10
D	D	D	B	A	A	A	A	E	B

Explanations:

1. Let the salary of the man be 1000k

Let the children be X, Y and Z

	X	Y	Z	Total
Money received	100k	180k	220k	500k
Spent	40% = 40k	60% = 108k	25% = 55k	
Money left	60k	72k	165k	297k

Money left with the man = 500k
Difference = 500k – 297k = 203k
203k = 1015
k = 5
Salary of man = 1000k = Rs. 5000

Hence, option D is correct.

2. **Smart Approach:-**

Total savings of A and B = 50% of their total income
So, Total expenditure of A and B also will be equal to 50% of their total income
Average expenditure = Rs. 16000
So, Total expenditure = Rs. 32000 = 50% of their total income
So, Total income of A and B = Rs. (32000 * 2) = Rs. 64000
Hence option D is correct.

Alternate Method:-
Salary of A is 37.5% of the total salary of A and B.
Let the total salary of A and B = 16k
The Salary of A = (3/8) × 16k = 6k → Salary of B = 10k
B saves 60% of his salary and total savings of A and B is 50% of their total income.
Savings of B = 60% (10k) = 6k → Exp (B) = 4k
Total savings of A and B = 50% (16k) = 8k → savings (A) = 8k – 6k = 2k → Exp (A) = 2k
Their average expenditure is Rs 16000
Average expenditure of A and B = 4k = 16000 → k = 4000

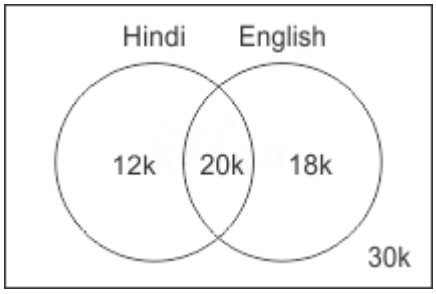
	Salary	Expenditure	Savings
A	6k	4k	2k
B	10k	4k	6k

Total salary of A and B = 16k = Rs 64000
Hence, option D is correct.

3. Let the number of students in class = 80k

Students pass in both the English and Hindi = 25% (80k) = 20k
37.5% of the students failed in both the subjects = 37.5% (80k) = 30k
60% students failed in Hindi = 60% (80k) = 48k
Students who failed in Hindi & passed in English = 48k – 30k = 18k

Students who failed in English & Passed in Hindi = 80k – (20k + 48k) = 12k



The difference between the students who passed in English and those who passed in Hindi is 15

$6k = 15 \rightarrow k = \frac{5}{2}$

Total strength of class = $80k = 80 \times \frac{5}{2} = 200$

Hence, option D is correct.

4. Let total students = N

students in hostel A = $33\frac{1}{3}$ % of N = $\frac{N}{3}$

students in hostel B = $N - \frac{100N}{3} = \frac{2N}{3}$

According to question-

$\Rightarrow \frac{N}{3} + 20 = \frac{N}{2}$

$\Rightarrow 20 = \frac{N}{6}$

$\Rightarrow N = 120$

Now, if 20 students from hostel A are shifted to hostel B-

$\Rightarrow \frac{\frac{N}{3} - 20}{N} \times 100 = \frac{20}{120} \times 100 = 16.67\%$

Hence, option B is correct.

5. ABD scored his runs only in boundaries

Let the number of fours be X and numbers of sixes be Y

Total balls played =16

X + Y = 16 …….I

Total runs scores =86

4X + 6Y = 86…….II

Solving I AND II we get

X = 5 and Y = 11

Runs scored in boundaries = 20

$$\% \text{ of runs scored in boundaries} = \frac{20}{86} \times 100 = 23.25\%$$

Hence, option A is correct.

6. Let the price of mobile be Rs. 100X

Price of mobile after 20% discount = Rs. 80X

Price after further 10% discount = Rs. 72X
72X = 36000
X = 500

Cost price of mobile = 100 × 500 = 50000

Hence, option A is correct.

7. The original weight to be bought and sold is 1000gm but he bought x% more and sold only 800gm.

So he bought 1000 × (1+ x/100) gms and sells only 800gms for every 1000 gms

He further sells at 10% above the cost price, so we can say he sells only 800 × (10/11) gms instead of 800gms

So he sells only 800 × (10/11) gms for every 1000 × (1 + x/100) gms bought which earns him a profit of 65%.

800 × (10/11) (165/100) = 1000(1 + x/100)
We get, x = 20%
Hence, option A is correct.

8. Passing marks for class X = (1225 + 125) = 1350

Passing marks of class IX = $\frac{2}{3}$ * 1350 = 900

Hence, option A is correct.

9.

Ratio of the quantity of novels sold = $\frac{40\%}{60\%}$ = 2 : 3

40% novels are sold at 3/4th of the cost price.
So, Loss on 40% of novels = 25%
= 25% (C.P is taken as Rs. 100)
Let us take profit percentage of 60% novels as x%
By Mixture and Allegation,

Profit of 40% of novels — Profit of 60% novels

– 25% — x%

\ /

20%

/ \

(x – 20) — 20 – (– 25) = 45

Ratio = 2 : 3
So,

$\frac{x - 20}{45} = \frac{2}{3}$

x = 50%

Hence, option E is correct.

10. Let the number of female be 3x and male be 2x

∴ Number of employees which work below level 2

= (75% × 3x) + (80% × 2x) = $\frac{77x}{20}$

Reqd. % = $\frac{(77x/20)}{5x} \times 100 = 77\%$

Hence, option B is correct.