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Percentage Questions for RBI Asst. Pre, IBPS Clerk Pre and SBI Clerk Pre Exams

Percentage Quiz 18

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

1. 30% of first number is equal to 20% of second number. If average of both the numbers is 5 less than the second number, then find 80% of second number.

- A. 21 B. 28 C. 24 D. 32 E. 16

2. Puneet gave 80% of his income to his wife. His wife used 10% of it for clothing, 40% on paying rent, 20% on food and saved the rest of it. If the money spent on clothing is Rs. 11000, how much money did Puneet kept with him?

- A. Rs. 13750 B. Rs. 21500 C. Rs. 23500 D. Rs. 25500 E. Rs. 27500

3. Rani earns 10% more than his friend Shubham. The expenditure of Rani and Shubham is 60% and 80% respectively of their respective income. The savings of Shubham is what percent less than savings of Rani?

- A. 45.45% B. 52.24% C. 54.54% D. 51.10% E. 55.24%

4. Initial price of a purse was Rs. 240 but after sale of 40% purse, the price per purse was increased by 30%. If the total number of purse sold was 300, then find difference between money received by shopkeeper before and after changing the price?

- A. Rs. 27360 B. Rs. 25360 C. Rs. 26360 D. Rs. 25460 E. Rs. 26560

5. The salary of Rani is 20% less than that of Simran. Both Rani and Simran spend 10% of their respective salary on shopping and save the rest. If the savings of Simran is Rs. 7200, then find the savings of Rani.

- A. Rs. 5760 B. Rs. 5880 C. Rs. 5960 D. Rs. 5860 E. Rs. 5980

6. Sunil has Rs. 1500 in his PhonePe account, and then he increased it by 10%. Now he again increased the amount by 20%. Find the difference (in Rs.) between the final money and the initial money in his PhonePe account?
- A. 490 B. 500 C. 450 D. 520 E. 480
7. The number of children in an Orphanage in January was 400. There was a successive increase of 25% and 10% in February and March respectively. Find the number of children at the end of April if there was a decrease of 20% in April.
- A. 450 B. 440 C. 430 D. 460 E. 470
8. The number of seats in a cricket ground is increased by 10% and the price of a ticket is also increased by 5%. What is the effect on the revenue collected?
- A. 12.5% B. 13.5% C. 14.5% D. 15.5% E. 16.5%
9. The salary of Anshul is Rs. S. His salary is increased by 20% and then increased by 30%. After the increments, his salary becomes Rs. (S+14000). Find S.
- A. Rs. 30000 B. Rs. 25000 C. Rs. 24000 D. Rs. 21000 E. Rs. 24500
10. In year 2019, ratio of men to women in a company is 25 : 12. In 2020, number of men is increased by 150 and number of women is increased by 20%. If in 2020, the total increase in the number of employees is 174, then find the number of men in the company in 2020?
- A. 300 B. 400 C. 350 D. 450 E. 500



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Correct Answers:

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

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Explanation:

1. Let the first number be a and second number be b.

$$30\% \text{ of } a = 20\% \text{ of } b$$

$$\frac{a}{b} = \frac{2}{3}$$

$$\text{Sum} = 2 + 3 = 5$$

$$\text{Average} = \frac{5}{2} = 2.5$$

Average is 5 less than the second number,

$$\text{So, } 3 - 2.5 = 0.5$$

$$0.5 \rightarrow 5$$

$$1 \rightarrow 10$$

$$3 \rightarrow 30$$

$$\text{Second number} = 30$$

$$80\% \text{ of second number} = \frac{80 \times 30}{100} = 24$$

Hence, option C is correct.

2. Let the income of Puneet be 100.

He gave 80 to his wife, and kept 20 with himself.

Wife's expenditure on clothing



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$$= \frac{80 \times 10}{100} = 8$$

Wife's expenditure on rent

$$= \frac{80 \times 40}{100} = 32$$

Wife's expenditure on food

$$= \frac{80 \times 20}{100} = 16$$

Money spent on clothing i.e. 8 will correspond to 11000

$$100 \text{ will correspond to } = \frac{11000 \times 100}{8}$$

$$= 137500$$

Puneet kept 20 with him,

$$\text{Money kept by Puneet} = \frac{137500 \times 20}{100} = \text{Rs. } 27500$$

Hence, option E is correct.

3.

$$10\% = \frac{1}{10}$$

Income of Shubham = 10, income of Rani = 11

Expenditure of Shubham = 80%, saving of Shubham = 20%

$$\text{Saving of Shubham} = \frac{10 \times 20}{100} = 2$$

Expenditure of Rani = 60%, saving of Rani = 40%

$$\text{Saving of Rani} = \frac{11 \times 40}{100} = \frac{22}{5}$$

$$\text{Ratio of Saving} = 2 \times 5 : 22 = 10 : 22$$

$$\text{Reqd. \%} = \frac{12 \times 100}{22} = 54.54$$

Hence, option C is correct.

4. Initial Price = 240

40% of 300 i.e. 120 sold at Rs. 240

$$\text{Money earned} = 120 \times 240 = 28800$$

$$\text{Final price} = 240(1.3) = 312$$

60% of 300 i.e. 180 sold at Rs. 312

$$\text{Money earned} = 180 \times 312 = 56160$$

$$\text{Difference} = \text{Rs. } 27360$$

Hence, option A is correct.

5. Let the salary of Simran be 100x

$$\text{Salary of Rani} = 80x$$

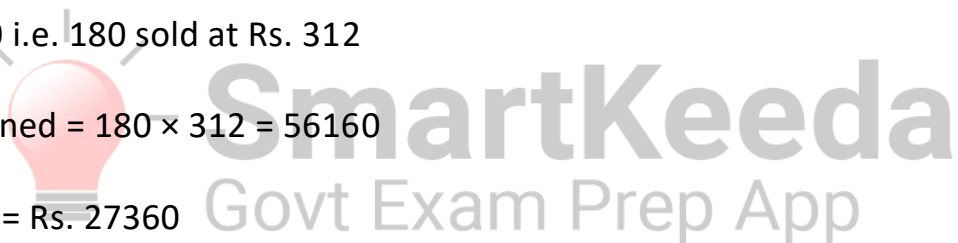
$$\text{Expenditure} = 10\%$$

$$\text{Saving} = 90\%$$

$$\text{Saving of Simran} = \text{Rs. } 7200$$

$$100 \times \frac{90}{100} = 7200$$

$$x = 80$$



$$\text{Salary of Rani} = 80x = 80 \times 80 = 6400$$

$$\text{Saving of Rani} = \frac{6400 \times 90}{100} = 5760$$

Hence, option A is correct.

6. Initial money = Rs. 1500

It is increased by 10% and then by 20%

$$1500(1.1)(1.2) = 1500 \times 1.1 \times 1.2 = \text{Rs. } 1980$$

$$\text{Required difference} = 1980 - 1500 = 480$$

Hence, option E is correct.

7.


$$\text{Increase of } 25\% = \frac{5}{4}$$

$$\text{Increase of } 10\% = \frac{11}{10}$$

$$\text{Decrease of } 20\% = \frac{4}{5}$$

Number of children at the end of April

$$= 400 \times \frac{5}{4} \times \frac{11}{10} \times \frac{4}{5} = 440$$

Hence, option B is correct.

8. Number of seats increased by 10%

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Ticket price increased by 5%

Effective Revenue collected

$$= 10 + 5 + \frac{10 \times 5}{100} = 15.5\%$$

Hence, option D is correct.

9. Anshul's original salary = Rs. S

ATQ,

$$S(1.2)(1.3) = S + 14000$$

$$S(1.56) = S + 14000$$

$$S = \text{Rs. } 25000$$

Hence, option B is correct.

10. In 2019,

$$\text{Men : Women} = 25 : 12$$

Let the number of men = 25z

The number of women = 12z

In 2020,

Number of men is increased by 150

$$\text{Number of men} = 25z + 150$$



Number of women is increased by 20%

$$\text{Number of women} = 12z + \frac{12z \times 20}{100} = 12z + 2.4z$$

$$\text{Total increase} = 174 = 150 + 2.4z$$

$$2.4z = 24$$

$$z = 10$$

$$\text{Number of men} = 25z + 150 = 400$$

Hence, option B is correct.



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