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Mixed Maths Questions for SBI Clerk Pre and IBPS Clerk Pre Exams.

SBI Clerk Pre Maths Quiz 4

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

1. The average age of the 20 aspirants of a class is 19.2 years. After Some time two more aspirants join them and then average is increased by 0.3 years. Find the difference between the age of new aspirants.

- A. 12 B. 15 C. 8 D. Can't be determined E. None of these

2. The total income of Ramesh, Suresh and Dinesh is Rs. 17325. Ramesh spend 70%, Suresh spend 75% and Dinesh spend 80% of their income. The ratio of their saving is 6 : 8 : 5. What is the income of Dinesh?

- A. Rs. 4500 B. Rs. 5625 C. Rs. 7200 D. Rs. 4800 E. None of these

3. A sum fetches a simple interest of Rs. 6000 at the rate of 5% p.a. in 6 years. What would be the compound interest earned at the same rate of interest and the same principal in 2 years?

- A. Rs. 2500 B. Rs. 2125 C. Rs. 2245 D. Rs. 2325 E. None of these

4. In a college Anjana scored 80 marks out of 150 in History and 95 marks out of 120 in English. If she wants to score 70% marks in 3 subjects, find the minimum marks she should score in Geography out of 100.

- A. 70 B. 55 C. 76 D. 85 E. None of these

5. If a person sells a radio on the marked price then he earns total profit of Rs. x. if he sells the same radio for 30% discount on the marked price then he earns Rs. y but if he gives two successive discounts of 20% and 10% then he earns Rs. z. if the difference between Y and Z is Rs. 18 and the cost price of the radio is Rs. 500 then find the sum (in Rs.) of x, y, and z?

- A. 648 B. 678 C. 712 D. 672 E. None of these

6. Ram takes Rs. 5000 from Mohan for 3 years under simple interest at the rate of 10% per annum calculated half-yearly. What amount will be paid by Ram to Mohan after the end of 3 years?

- A. Rs. 9000 B. Rs. 3000 C. Rs. 6500 D. Rs. 7500 E. None of these

7. A person purchased firecrackers of worth Rs. 6000. He sold $\frac{1}{3}$ rd part of the firecrackers at 100% profit, $\frac{1}{2}$ nd part of the remaining at 50% profit and the remaining part he burst himself. What was his total profit percentage?

- A. 16.67% B. 18.33% C. 20.33% D. 12.67% E. None of these

8. Ram divided his total property between his two sons. The elder son received 70% of the total property. If the elder son donates Rs. 8500 in charity then the total property remained with him will be 20% more than that of younger son. What was the difference between the total property received by the elder son and that by younger son?

- A. Rs. 7500 B. Rs. 12500 C. Rs. 15000 D. Rs. 10000 E. None of these

9. In a group of 4 women the average weight of which is 40 kg, when two new women, the difference of whom weight was 14 kg, joined then the average age of all the women was increased by 10%. What would have been the average if only fatter woman had joined the group?

- A. 43.6 kg B. 43.8 kg C. 43.4 kg D. 43.2 kg E. None of these

10. In a school, one – fourth of the total number of boys and three – fourth of the total number of girls participated in Annual function of the school. If 200 students had not participated in the annual function of the school then what was the total number of students in the school?

- A. 500 B. 600 C. 800 D. 750 E. Can't be determined

Correct Answers:

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

Explanations:

1. Total age of 20 aspirants = $20 \times 19.2 = 384$

Total age of 22 aspirants = $22 \times 19.5 = 429$

Total Age of new aspirants = $429 - 384 = 45$ years

But we can not find the difference of the new aspirants'. So answer is can't be determined.

Hence, option D is correct.

2. The ratio of the saving = $6 : 8 : 5$

So the saving of Ramesh, Suresh and Dinesh is $6x, 8x, 5x$.

The saving of Ramesh is $(100 - 70)\% = 30\%$ that is $6x$. So the income is $6x \div 30 \times 100 = 20x$

The saving of Suresh is $(100 - 75)\% = 25\%$ that is $8x$. So the income is $8x \div 25 \times 100 = 32x$

The saving of Dinesh is $(100 - 80)\% = 20\%$ that is $5x$. So the income is $5x \div 20 \times 100 = 25x$

Total income = $20x + 32x + 25x$

$17325 = 77x$

$x = 225$

Dinesh's income = $25 \times 225 = \text{Rs. } 5625$.

Hence, option B is correct.

3. Let Rs. P be the principal value.

$$\therefore 6000 = \frac{P \times 5 \times 6}{100}$$

$$\therefore P = \text{Rs. } 20000$$

$$\text{Amount} = P \times \left(1 + \frac{R}{100}\right)^2$$

$$= 20000 \times \left(1 + \frac{R}{100}\right)^2$$

$$\therefore \text{Amount} = \text{Rs. } 22050$$

$$\therefore \text{CI} = 22050 - 20000 = \text{Rs. } 2050$$

Hence, option E is correct.

4. Total maximum marks = $100 + 120 + 150 = 370$

Total marks in History and English = $95 + 80 = 175$

Total marks required by her to get 70% = $370 \times 70\% = 259$

So, she needs $259 - 175 = 84$ marks to score 70%.

Hence, option E is correct.

5. Let the marked price = Rs. $100a$

At no discount,

Profit = $x = 100a - 500$ (i)

At 30% discount,

The selling price = 70% of $100a = 70a$

Profit = $y = 70a - 500$ (ii)

At 20% and 10% two successive discount

$= \frac{20 + 10 - 20 \times 10}{100} = 28\%$ discount

The selling price = 72% of $100a = 72a$

Profit = $z = 72a - 500$ (iii)

$y - z$ - equation (iii) - (ii)

$= 2a = 18$

$A = 9$

Then from the equation (i)

$x = 900 - 500 = 400$

From the equation (ii)

$y = 630 - 500 = 130$

From the equation (iii)

$z = 648 - 500 = 148$

The required sum = $400 + 130 + 148 = 678$

Hence, option B is correct.

6. Actual rate for consideration = $10/2 = 5\%$

$$\text{The total SI} = \frac{P \times R \times T}{100} = \frac{5000 \times 5 \times 6}{100} = 1500$$

The total amount = Rs. $(5000 + 1500) = \text{Rs. } 6500$

Hence, option C is correct.

7.

$$\text{One third of } 6000 = \frac{6000}{3} = 2000$$

$$\text{The total SP of the worth of Rs. } 2000 = \frac{(100 + 100) \times 2000}{100} = 4000$$

The remaining = $6000 - 2000 = 4000$

$$\text{Half of } 4000 = \frac{4000}{2} = 2000$$

The total SP of the worth of Rs. 2000 = $(100 + 50)\%$ of 2000 = Rs. 3000

The total SP = $4000 + 3000 = 7000$

The profit = $7000 - 6000 = 1000$

$$\text{The reqd. profit \%} = \frac{1000 \times 100}{6000} = \frac{100}{6} = \frac{50}{3} = 16.67\%$$

Hence, option A is correct.

8. Let the total property Ram had = $100x$

The property received by elder son = 70% of $100x = 70x$

The property received by younger son = $100x - 70x = 30x$

20% more than $30x = 120\%$ of $30x = 36x$

According to the question, $70x - 36x = 34x = 8500$

$$x = 250$$

The difference between the total property received by the elder son and that by younger son = $70x - 30x = 40x = 250 \times 40 = 10,000$

Hence, option D is correct.

9. Let A and B joined the group

Let the weight A = x kg

Then the weight of B = x + 14 kg

The sum of the weight of 4 women = $40 \times 4 = 160$ kg

10% of 40 = 4 kg

The sum of the weight of 6 women = $44 \times 6 = 264$ kg

The weight of two new joiner,

$$160 + x + x + 14 = 264$$

$$2x = 90$$

$$x = 45$$

If the fatter woman had joined the group = $160 + 45 + 14 = 219$ kg

$$\text{The average} = \frac{219}{5} = 43.8 \text{ kg}$$

Hence, option B is correct.

10. In the question, the total number of students who had not participated in the annual function is given but we don't know the number of boys and girls therefore, answer could not be determine

Hence, option E is correct.



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