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

## SBI Clerk Pre Maths Quiz 5

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

1. Jai sold a laptop to Veeru at a profit of 20%. Later on Veeru sold it back to Jai at a profit of 25%, thereby gaining Rs.750. What is the original price of laptop?

- A. Rs. 20000      B. Rs. 3000      C. Rs. 5000      D. Rs. 2500      E. None of these

2. A milkman has 2 jar of milk of same quantity. In the first jar, water is 20% and rest is milk and in the second jar, water is 35% and rest is milk. He mixed the both mixture. Find the ratio of milk and water in the final mixture.

- A. 2.1      B. 3.2      C. 11.3      D. 29.11      E. None of these

3. X can do a piece of work in 20 days and Y can do the  $\frac{1}{7}$ th of the same work in 5 days. In how many days together they can complete the  $\frac{11}{14}$ th of the total work?

- A.  $\frac{140}{11}$  days      B. 15 days      C. 20 days      D. 10 days      E. None of these

4. Akansha purchased two macbooks on the same cost price. She sold first at a 8% loss and second at a 10% profit. If the difference between the selling price is Rs. 1080, find the cost price of both macbooks.

- A. Rs. 10000      B. Rs. 6000      C. Rs. 12000      D. Rs. 15000      E. None of these

5. Satyam invested Rs. 2250 in a business and after some time Sundar also join him and invested Rs. 2500. At the end of year Sundar received Rs. 2750 profit out of Rs. 6050. After how much time did he join the business?

- A. 9      B. 6      C. 4      D. 8      E. None of these

6. The circumference of the circle and the perimeter of the square is equal and the ratio between the diameter of the circle and the side of the square is 7 : 11. What is the area of the circle?

- A.  $154 \text{ cm}^2$       B.  $160 \text{ cm}^2$       C.  $132 \text{ cm}^2$       D. Can't be determined      E. None of these

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7. How many words can be formed using all the letters of the word 'PICTURE' without repetition such that the vowels occupy the even places?

- A. 44                      B. 720                      C. 360                      D. 1520                      E. None of these

8. Ratio of present age of Priyam and Deepak is 3 : 2 respectively. Before 9 years, ratio of age of Deepak and Sandeep was 3 : 5 respectively and Priyam is 3 years older than Sandeep. What will be the ratio of age of Deepak and Sandeep after 12 years?

- A. 6 : 7                      B. 7 : 8                      C. 4 : 5                      D. 5 : 6                      E. None of these

9. Average weight of 32 students in a class is 38 kg while average weight of 6 teachers who take the class of these students is 62 kg. 12 students and 2 teachers go for a picnic and the average weight of remaining students and teachers is 35 kg and 61 kg respectively. Find the average weight of the people who went for the picnic.

- A. 42 kg                      B. 50 kg                      C. 43 kg                      D. 46 kg                      E. None of these

10. A man deposited a certain amount on simple interest at certain rate of interest. If the principal amount deposited becomes Rs. 18240 in 5 years and Rs. 20500 in 9 years. Find the principal amount deposited by the man

- A. Rs. 15415                      B. Rs. 16115                      C. Rs. 15885                      D. Rs. 14755                      E. None of these

**Correct Answers:**

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

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## Explanations:

1. Let the original price of laptop = Rs.  $x$

Jai sold it to Veeru for  $x \times 120\% = \text{Rs. } 1.2x$

Veeru sold it back to Jai for  $1.2x \times 125\% = \text{Rs. } 1.5x$

Profit of Veeru =  $1.5x - 1.2x$

$$750 = .3x$$

$$x = \text{Rs. } 2500$$

Hence, option D is correct.

2. In first jar Ratio of Milk and Water =  $80 : 20 = 4 : 1$

In second jar Ratio of Milk and Water =  $65 : 35 = 13 : 7$

Assume the capacity of the two jar is 20 litres.

$$= 20 \times \frac{4}{5} + 20 \times \frac{13}{20} : 20 \times \frac{1}{5} + 20 \times \frac{7}{20}$$

$$= (16 + 13) : (4 + 7) = 29 : 11$$

Hence, option D is correct.

3. X can do the work in 20 days.

In one day X can do the  $\frac{1}{20}$ <sup>th</sup> of the work.

Y can do the  $\frac{1}{7}$ <sup>th</sup> of the work in 5 days, so he can do the same work in  $7 \times 5 = 35$  days.

In one day Y can do the  $\frac{1}{35}$ th of the work.

In one day X and Y together can do the  $\frac{1}{20} + \frac{1}{35}$  work

$$= \frac{1}{20} + \frac{1}{35} = \frac{7+4}{140} = \frac{11}{140} \text{ work}$$

$\frac{11}{140}$  work is done in 1 day

$$\frac{11}{14} \text{ work is done in } \frac{140}{11} \times \frac{11}{14} = 10 \text{ days}$$

Hence, Option D is correct.

4. Let the cost price of the macbook is Rs.  $x$ .

As per the statement given in the question:

$$x \times 110\% - x \times 92\% = 1080$$

$$(110 \times x - 92 \times x) \div 100 = 1080$$

$$110 \times x - 92 \times x = 1080 \times 100$$

$$18 \times x = 108000$$

$$x = \text{Rs. } 6000$$

Cost Price of both macbooks is  $6000 + 6000 = \text{Rs. } 12000$

Hence, Option C is correct.

5. Satyam's Profit =  $6050 - 2750 = \text{Rs. } 3300$

Sundar's profit = Rs. 2750

Ratio of the profit =  $3300 : 2750 = 6 : 5$

Because the ratio of the capital is equals to the ratio of the profit then,

$$2250 \times 12 : 2500 \times x = 6 : 5$$

$$5 (2250 \times 12) = 6 (2500 \times x)$$

$$x = 9 \text{ months}$$

So Sundar invested after 3 months.

Hence, option E is correct.

6. The perimeter of the circle =  $14x$ , the radius of the circle =  $14x / 2 = 7x$ , The area of the square =  $11x$

The circumference of the circle = The perimeter of the square

$$2 \pi r = 4 a$$

$$2 \times 22 \times 7x \div 7 = 4 \times 11x$$

$$1 : 1$$

So given information is incorrect. We cannot find the answer so the would be C.N.D.

Hence, option D is correct.

7. There are 3 vowels and 3 even places and hence they can be arranged in  $3!$  Ways consonants are 4 and they can be arranged in 4 available positions in  $4!$  ways.

Total ways are  $3! \times 4! = 144$ .

Hence, option E is correct.

8. Let the present age of Priyam and Deepak be  $3x$  years and  $2x$  years respectively

And, present age of Sandeep be ' $y$ ' years

So,  $3x - y = 3$

$y = 3x - 3$

And,  $\frac{2x - 9}{y - 9} = \frac{3}{5}$

$10x - 45 = 3y - 27$

$10x - 45 = 3(3x - 3) - 27$

$10x - 45 = 9x - 9 - 27$

$x = 45 - 36 = 9$

$y = 3x - 3 = 24$

Hence, option D is correct.

9. 12 students and 2 teachers went for the picnic which means that 20 students and 4 teachers did not go to the picnic

Total weight of 12 students who went for picnic =  $38 \times 32 - 35 \times 20 = 1216 - 700 = 516$  kg

Total weight of 2 teachers who went for picnic =  $62 \times 6 - 61 \times 4 = 128$  kg

Total weight of all the people who went for the picnic =  $516 + 128 = 644$  kg

Reqd. average =  $\frac{644}{14} = 46$  kg

Hence, option D is correct.

**10.** Simple interest earned by man in 4 years =  $20500 - 18240 = 2260$

Simple interest earned by man in 1 year =  $\frac{2260}{4} = \text{Rs. } 565$

Principal amount deposited by the man =  $18240 - 5 \times 565 = \text{Rs. } 15415$

Hence, option A is correct.

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