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

## SBI Clerk Pre Maths Quiz 6

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

1. Two containers M and N contain mixture of petrol and diesel in the ratio of 3 : 1 and 7 : 3. The quantity of liquid in the container N is 40 litres more than the quantity of liquid in the container M and the total quantity in the 2 containers is 600 litres. What is the difference between the quantity of diesel in container M and N?

- A. 44 litres      B. 30 litres      C. 18 litres      D. 26 litres      E. None of these

2. R, S and T started a business by investing Rs. 40000, Rs. 60000 and Rs. 'x' respectively. At the end of 4 month, R contributed an additional capital equal to half of T's initial capital. T left the business at the end of the 4th month while R and S invested for the whole year. If S's share of 1st year profit of Rs. 9200 was Rs. 3600, find the value of x.

- A. 32000      B. 80000      C. 60000      D. 48000      E. None of these

3. A sum of money amounts to 12000 in 4 years and 9500 in 3 years under compound interest. What is the rate of interest per annum?

- A. 22.3%      B. 16.4%      C. 26.3%      D. 12.3%      E. None of these

4. A salesman has certain number of oranges of which 5% are found to be broken. He sells 93% of the remainder and still has 266 oranges left. How many oranges he originally had?

- A. 4000      B. 4500      C. 3500      D. 4200      E. None of these

5. When Chitra was born her mother's age was 30 years and when her sister Bittu was born 4 years after her birth her father was 26 years old. Find the age difference between her parents?

- A. 4 years      B. 5 years      C. 1 years      D. 2 years      E. None of these

6. The area of lawn is 460 square metres. If the length is 15 percent more than the breadth of the rectangular field. What is the length of the field?

- A. 15 m      B. 26 m      C. 34.5 m      D. Can't be determined      E. None of these

7. The average weight of 17 students is 90 kg. If the weight of teacher is also included, then the average weight is increased by 200 grams. Find the weight of the teacher?

A. 94 kgs                      B. 93.6 kgs                      C. 93.4 kgs                      D. 94.6 kgs                      E. None of these

**8. If  $n$  is a natural number, then  $(12n^2 + 12n)$  is always divisible by?**

A. 6 only                      B. 6 and 12 both                      C. 12 only                      D. 18 only                      E. None of these

**9. A student reads  $\frac{3}{8}$  of a novel on the first day and  $\frac{4}{5}$  of the remaining on the second day. If the number of unread pages of the novel still is 40, then how many pages did the novel contain?**

A. 240                      B. 480                      C. 320                      D. 160                      E. None of these


**10. A milkman sells milk at its cost price but measures 850 millilitres instead of 1000 millilitres. Find his gain percent?**

A.  $17\frac{11}{17}\%$                       B.  $7\frac{1}{12}\%$                       C.  $33\frac{1}{3}\%$                       D. 15%                      E. 17.5%



**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
D	B	C	A	E	E	B	B	C	A

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**Explanations:**

1. Let the quantity of liquid in container M and N be 'm' litres and 'n' litres respectively.

According to the question,

$$m + n = 600$$

$$\text{Ans, } n = m + 40$$

On solving, we get,

$$m = 280 \text{ litres and } n = 320 \text{ litres respectively}$$

$$\text{So, quantity of diesel in M} = \frac{1}{4} \times 280 = 70 \text{ litres}$$

$$\text{Quantity of diesel in N} = \frac{3}{10} \times 320 = 96 \text{ litres}$$

$$\text{So, required difference} = 96 - 70 = 26 \text{ litres}$$

Hence, option D is correct.

2. Profit sharing ratio between R, S and T at the end of 1st year

$$= \left[ 40000 \times 4 + \left( 40000 + \frac{x}{2} \right) \times 8 \right] : [60000 \times 12] : [x \times 4]$$

$$= [480000 + 4x] : [720000] : [4x]$$

S's share of 1st year profit

$$= \frac{720000}{480000 + 4x + 720000 + 4x} \times 9200 = 3600$$

On solving, we get  $x = \text{Rs. } 80000$

Hence, option B is correct.

3. It is given that the under compound interest, a sum of money amounts to 12000 in 4 years and 9500 in 3 years.

So, percentage increase in value of money in 4th year from the 3rd year is :

$$\frac{12000 - 9500}{9500} \times 100 = 26.3\%$$

So, the rate of interest per annum = 26.3%

Hence, option C is correct.

4. Let the total number of oranges be 'x'

5% are found to be broken

Remaining = 95%

He sells 93% of the remaining, it means 7% of the remaining oranges are left, which is equal to 266 oranges

$$\text{So, } \frac{7}{100} \times \frac{95}{100} \times x = 266$$

$$x = \frac{266 \times 100 \times 100}{7 \times 95}$$

$$x = 4000$$

Hence, option A is correct.

**5.** Father's age when Chitra's brother was born = 26 years

Chitra's brother was born 4 years after Chitra

Mother's age when Chitra's sister was born = Mother's age when Chitra was born + 4

Mother's age when Chitra's sister was born = 30 + 4 = 34

Age difference between her parents = 34 - 26 = 8 years

Hence, option E is correct.

**6.** Let, L and B are the length and breadth of the lawn

Length is 15% more than breadth

$$L = 1.15B$$

$$\text{Area} = L \times B$$

$$460 = 1.15 B \times B$$

$$B = 20 \text{ m}$$

$$L = 23 \text{ m}$$

Hence, option E is correct.

**7.** Average weight of 17 students = 90 kg

Let, the weight of teacher be  $x$

So, the average weight is increased by 200 grams

$$\text{Therefore, } \frac{(17 \times 90) + x}{18} = 90 + \frac{200}{1000}$$

$$\frac{1530 + x}{18} = 90.2$$

$$1530 + x = 1623.6$$

$$x = 1623.6 - 1530 = 93.6 \text{ kgs}$$

Therefore, the weight of the teacher = 93.6 kgs

Hence, option B is correct.

**8.** Given,  $(12n^2 + 12n) = 12n(n + 1)$

We know that  $n(n + 1)$  will always be even

Therefore,  $(12n^2 + 12n)$  will always be divisible by both 6 and 12

Hence, option B is correct.

**9.** Let the total number of pages be  $x$

On day 1, the number of pages he read =  $\frac{3}{8}x$

$$\text{Remaining pages} = x - \frac{3}{8}x = \frac{5}{8}x$$

On day 2, the number of pages he read =  $\frac{5}{8}x \times \frac{4}{5} = \frac{x}{2}$

$$\text{Remaining pages} = \frac{5}{8}x - \frac{x}{2} = \frac{x}{8}$$

Given, if the number of unread pages still is 40;

$$\text{i.e. } \frac{x}{8} = 40$$

Therefore,  $x = 320$

So, the number of pages did the novel contain = 320

Hence, option C is correct.

**10.** Let his cost price and selling price be Rs.  $x$

Therefore, his cost price for 1000 ml is Rs.  $x$

Therefore, his cost price for 1 ml is Rs.  $\frac{x}{1000}$

He sells 850 ml for Rs.  $x$

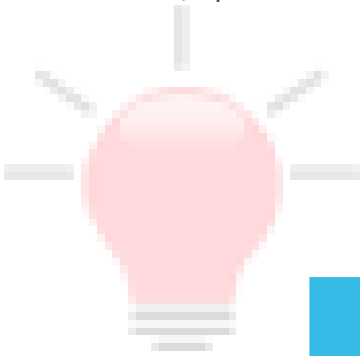
Therefore, his selling price for 1 ml is Rs.  $\frac{x}{850}$

Profit = SP – CP

$$\text{Profit} = \frac{x}{850} - \frac{x}{1000} = \frac{3x}{17000}$$

$$\text{Profit \%} = \frac{\frac{3x}{17000}}{\frac{x}{1000}} \times 100 = \frac{300}{17} = 17 \frac{11}{17} \%$$

Hence, option A is correct.



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