# Banking Daily Quiz Blog - Quant -February 3





**Directions : In the following questions, calculate quantity I and** quantity II, compare them and answer according to the following options.

1. Quantity I: Profit earned on selling an article at Rs. 450 at 20% profit

Quantity II: Cost price of the article which is sold at Rs.84 on 20% profit



# **Solution**

Quantity I:

Required profit = 
$$450 \times \frac{20}{120}$$
 = Rs.75

Quantity II:

Required cost price = 
$$84 \times \frac{100}{120} = \text{Rs.70}$$

So, Quantity I > Quantity II.

Directions : In the following questions, calculate quantity I and quantity II, compare them and answer according to the following options.

2. In a village there are 60% males and rest are females. 30% of total male are illiterate and 25% of total female are illiterate. Number of illiterate males is 1152.

**Quantity I : Literate females in the village.** 

Quantity II: 1940



Quantity I = Quantity II or no relation can be established

# **Solution**

E

# Quantity I:

Required female = 
$$1152 \times \frac{100}{30} \times \frac{40}{60} \times \frac{100-25}{100} = 1920$$

## Quantity II:

1940

So, Quantity I < Quantity II

**Directions : In the following questions, calculate quantity I and quantity II, compare them and answer according to the following options.** 

3. A man invested Rs. P at 12% p.a. on simple interest for two years.

Quantity I: If at the end of second year he gets Rs.1200 as interest, then find Rs.P.

Quantity II: Rs.6000

A

B

С

D

E

Quantity I > Quantity II

Quantity I < Quantity II

Quantity  $I \ge Quantity II$ 

## **Solution**

Quantity I:

ATQ,

 $\frac{P \times 12 \times 2}{100} = 1200$  P = Rs. 5,000.Quantity II: Rs.6,000

So, Quantity I < Quantity II.

Directions : In the following questions, calculate quantity I and quantity II, compare them and answer according to the following options.

4. Ploughing cost of a rectangular field is Rs.288 at the rate of Rs.3 per square meter. Length of the field is 4 meters more than the width of field.

**Quantity I : Length of rectangular field.** 

Quantity II : 12 meters.

Quantity I > Quantity II





# **Solution**

Let breadth of the field be x m.

So, length of the field = (x + 4) m Area of a rectangular field =  $\frac{288}{3} = 96m^2$ ATQ, x(x + 4) = 96  $x^2 + 4x - 96 = 0$   $x^2 + 12x - 8x - 96 = 0$  x(x + 12) - 8(x + 12) = 0 (x + 12)(x - 8) = 0 x = 8, -12Quantity I: Length of rectangular field = 12m

Quantity II: 12 m

So, Quantity I = Quantity II

# Directions : In the following questions, calculate quantity I and quantity II, compare them and answer according to the following options.

5. Quantity I: Sum of present ages of Sam and Prince is 32 years and Sam is 8 years older than Prince. Find present age of Prince.

# Quantity II: 15 years.

Α

B

С

D

E

Quantity I > Quantity II

# **Quantity I < Quantity II**

Quantity  $I \ge Quantity II$ 

Quantity  $I \leq Quantity II$ 

Quantity I = Quantity II or no relation can be established

# **Solution**

Quantity I:

Let present age of Prashant be x years.

So, present age of Shivam = (x + 8) years

x + 8 + x = 32

x = 12 years

# Quantity II:

15 years

# So, Quantity I < Quantity II.

6. A and B together can complete a work in 4 days. A alone takes 6 days less than B alone takes. In how many days c alone complete the work if he is 50% more efficient than B ?

A	3 days
B	4 days
С	6 days
D	8 days
E	None of these

# **Solution**

Sol.

Let time taken by A is x and by B is x + 6 days

$$\frac{x(x+6)}{2x+6} = 4$$

$$x^2 + 6x - 8x + 24$$

$$u \mid 0u = 0u \mid 2$$

$$x^2 - 2x - 24 = 0$$

$$x = 6$$

Time taken by 
$$C = rac{2}{3} imes 12 = 8 \; days$$

7. There are 240 students in class IX and out of that 40% appeared in exam and in class X 210 students out of that 30% appeared in exam. Then find difference between number of students not appeared in exam from both classes ?



*Required difference* = 
$$rac{70}{100} imes 210 - rac{60}{100} imes 240 = 147 - 144 = 3$$

8. A vessel contains mixture of milk and water in the ratio of 7:1

respectively. 24 liters mixture is removed from the vessel and if the quantity of remaining milk in the vessel is 56 liters, then find quantity of water in the vessel initially.





# **Solution**

Let quantity of milk and water in the vessel initially be 7x liters & x liters respectively. ATQ,

$$(7x - 24 \times \frac{7x}{8x}) = 56$$
$$x = 11$$

9. Ratio of ages of A and B, 4 years later is 8:9 respectively. If average of present ages of A & B is 47 years, then find difference in present ages of A & B.



# **B** 6 years



# **Solution**

Let ages of A & B, 4 years later be 8x years & 9x years respectively.

ATQ,

 $(8x - 4) + (9x - 4) = 47 \times 2$ 

17x = 102

x = 6 years

Required difference = 9x - 8x = 6 years



