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Inequalities Questions for IBPS RRB SCALE I Mains Exams.

Inequalities Quiz 21

Directions: In each of the following questions, read the given statement and compare the Quantity I and Quantity II on its basis. (only quantity is to be considered)

1. What is the interest obtained?

Quantity I : An amount of Rs. 64000 is invested at 12.5% p.a. compound interest for two years.

Quantity II : An amount of Rs. 40000 is invested at 10% simple interest for 4 years.

- A. Quantity I > Quantity II
B. Quantity I < Quantity II
C. Quantity I \leq Quantity II
D. Quantity I \geq Quantity II
E. Quantity I = Quantity II or relation cannot be established.

2. The cost price of a book is Rs. 480. What is the amount of profit (in Rs.)?

Quantity I : The book is marked up by 37.5% and sold after a discount of Rs. 110.

Quantity II : The book is marked up by 50% and sold after a discount of Rs. 160.

- A. Quantity I > Quantity II
B. Quantity I < Quantity II
C. Quantity I \leq Quantity II
D. Quantity I \geq Quantity II
E. Quantity I = Quantity II or relation cannot be established.

3. A, B, C and D are the only members of Group X and P, Q, R and S are members of group Y. The average age of X and Y is 34 years and 28 years respectively.

Quantity I : If D leaves, the new average of group X will not be more than 30 years. What is the age of D?

Quantity II : If P leaves the new average of group Y will not be more than 22 years. What is the age of P?

- A. Quantity I > Quantity II
B. Quantity I < Quantity II
C. Quantity I \leq Quantity II
D. Quantity I \geq Quantity II
E. Quantity I = Quantity II or relation cannot be established.

4. A and C starts a business with Rs. 16000 and 10000 respectively. 6 months later B joins with Rs X and 't' months after that C leaves the business. The total profit at the end of one year is Rs. 10800.

Quantity I : If X is Rs. 3000 less than the initial investment of A and $t = 2$, what is the profit share of B?

Quantity II : If $X = 10000$ and $t = 3$, what is the profit share of C?

- A. Quantity I > Quantity II
B. Quantity I < Quantity II
C. Quantity I \leq Quantity II
D. Quantity I \geq Quantity II
E. Quantity I = Quantity II or relation cannot be established.

5. The salary of B is 36000 and salary of A is 11.11% more than B. C spends Rs. 24000 and saves 42.85% salary. Total expenditure of B and C is Rs. 44000. A saves 40% salary.

Quantity I : What is the total savings of A and B?

Quantity II : What is the sum of expenditure of B and savings of C?

- A. Quantity I > Quantity II
B. Quantity I < Quantity II
C. Quantity I \leq Quantity II
D. Quantity I \geq Quantity II
E. Quantity I = Quantity II or relation cannot be established.

6. **Quantity I :** Cost price of an article is Rs. 2800 and the profit earned by the shopkeeper was 35%. If the discount given by the shopkeeper was 5.5% then find the marked price of the article.

Quantity II : Marked price of an article is Rs. 6400. If the discount given is 15% and profit earned is 36% then find the cost price of the article.

- A. Quantity I > Quantity II
B. Quantity I < Quantity II
C. Quantity I \leq Quantity II
D. Quantity I \geq Quantity II
E. Quantity I = Quantity II or relation cannot be established.

7. **Quantity I :** Farhan lent Rs. 18000 at 20% p.a. compound interest compounded annually for 2 years. Find total interest earned by him.

Quantity II : Ankit deposited Rs. 17600 at 15% p.a. simple interest. Find total interest earned by Ankit in 3 years.

- A. Quantity I > Quantity II
B. Quantity I < Quantity II
C. Quantity I \leq Quantity II
D. Quantity I \geq Quantity II
E. Quantity I = Quantity II or relation cannot be established.



8. Quantity I : A train can cross a pole and platform having length 330 m in 8 seconds and 23 seconds respectively. Find the speed of the train.

Quantity II : When the average speed of the car is decreased by 5 Km/h, it reaches its destination nine minutes late. Find the original average speed of the car if the destination is 180 Km far from the starting point.

- A. Quantity I > Quantity II
D. Quantity I ≥ Quantity II
- B. Quantity I < Quantity II
E. Quantity I = Quantity II or relation cannot be established.
- C. Quantity I ≤ Quantity II

9. Quantity I : A cylinder having curved surface area 2376 cm^2 is to be painted. The cost of painting per cm^2 is Rs. 7. If the radius of the cylinder is 14 cm, then find the total amount required to paint the total surface area of the cylinder.

Quantity II : The length, breadth and the height of a cuboid are 26 m, 19 m and 12 m, respectively. Find the cost of painting the cuboid at Rs. 12 per m^2 .

- A. Quantity I > Quantity II
D. Quantity I ≥ Quantity II
- B. Quantity I < Quantity II
E. Quantity I = Quantity II or relation cannot be established.
- C. Quantity I ≤ Quantity II

10. Quantity I : A and B alone can do a work in 32 days and 24 days, respectively. A alone starts the work and does 50% of the work and leaves the work. If B does the remaining work, then in how many days will the work be completed?

Quantity II : A and B alone can do a work in 40 days and 60 days, respectively. If A starts the work and does 50% of work alone and then B joins A. In how many days will the work be completed?

- A. Quantity I > Quantity II
D. Quantity I ≥ Quantity II
- B. Quantity I < Quantity II
E. Quantity I = Quantity II or relation cannot be established.
- C. Quantity I ≤ Quantity II



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Correct Answers:

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



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Explanation:

1. **Quantity I** : An amount of Rs. 64000 is invested at 12.5% p.a. compound interest for two years.

$$CI = 64000 \times \left(1 + \frac{12.5}{100}\right)^2 - 64000 = \text{Rs. } 17000$$

Quantity II : An amount of Rs. 40000 is invested at 10% simple interest for 4 years.

$$SI = 40000 \times \left(4 \times \frac{10}{100}\right) = \text{Rs. } 16000$$

So, $QI > QII$

Hence, option A is correct.

2. $CP = 480$

Quantity I : The book is marked up by 37.5% and sold after a discount of Rs. 110

$$MP = 480 \times \left(1 + \frac{37.5}{100}\right) = 660$$

$$SP = 660 - 110 = 550$$

$$\text{Profit} = 550 - 480 = 70$$

Quantity II : The book is marked up by 50% and sold after a discount of Rs. 160

$$MP = 480 \times \left(1 + \frac{50}{100}\right) = 720$$

$$SP = 720 - 160 = 560$$

$$\text{Profit} = 560 - 480 = 80$$

So, $QI < QII$

Hence, option B is correct.

3. Total age of X = $4 \times 34 = 136$ years

Total age of Y = $4 \times 28 = 112$ years

Quantity I : If D leaves, the new average of group X will not be more than 30 years. What is the age of D?

New total age of X $\leq 3 \times 30$ or 90

So, age of D $\geq 136 - 90$

D ≥ 46 years

Quantity II : If P leaves the new average of group Y will not be more than 22years. What is the age of P?

New total age of Y $\leq 3 \times 22$ or 66

So, age of P $\geq 112 - 66$

P ≥ 46 years

So, QI = QII



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Hence, option E is correct.

4. Ratio of time investment of A : B : C = $16000 \times 12 : X \times 6 : 10000 \times (6 + t)$

Quantity I : If X is Rs. 3000 less than the initial investment of A and $t = 2$, what is the profit share of B?

A : B : C = $16000 \times 12 : 13000 \times 6 : 10000 \times (6 + 2)$

= $16 \times 12 : 13 \times 6 : 10 \times 8$

= 96 : 39 : 40

$$\text{Profit share of B} = \frac{39}{39 + 96 + 40} = \frac{39}{175} = 0.22$$

Quantity II : If $X = 10000$ and $t = 3$, what is the profit share of C?

$$A : B : C = 16000 \times 12 : 10000 \times 6 : 10000 \times (6 + 3)$$

$$= 16 \times 12 : 10 \times 6 : 10 \times 9$$

$$= 96 : 30 : 45$$

$$\text{Profit share of C} = \frac{45}{96 + 30 + 45} = \frac{5}{19} = 0.26$$

So, $QI < QII$

Hence, option B is correct.

5. The salary of B is 36000 and salary of A is 11.11% more than B. C spends Rs. 24000 and saves 42.85% salary. Total expenditure of B and C is Rs. 44000. A saves 40% salary.

	A	B	C
Salary	40000	36000	42000
Expenditure	24000	20000	24000
Savings	16000	16000	18000

Quantity I : What is the total savings of A and B?

$$\text{Savings (A + B)} = 16000 + 16000 = 32000$$

Quantity II : What is the sum of expenditure of B and savings of C?

$$\text{Sum} = 20000 + 18000 = 38000$$

So, $QI < QII$

Hence, option B is correct.

6. Quantity I :

Selling price of the article = 135% of 2800 = Rs. 3780

Marked price of the article = $\frac{3780}{94.5} \times 100 = \text{Rs. } 4000$

Quantity II :

Selling price of the article = 85% of 6400 = Rs. 5440

Cost price of the article = $\frac{5440}{136} \times 100 = \text{Rs. } 4000$

So, Quantity-I = Quantity-II

Hence, option E is correct.

7.

Quantity I :



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Total interest earned = $18000 \times \{(1.2)^2 - 1\} = \text{Rs. } 7920$

Quantity II :

Total interest earned = $\frac{17600 \times 15 \times 3}{100} = \text{Rs. } 7920$

So, Quantity-I = Quantity-II

Hence, option E is correct.



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8. Quantity I :

Let the length of the train be x m.

$$\text{So the speed of the train} = \frac{x}{8}$$

$$\text{Also the speed of train} = \frac{x + 330}{23}$$

$$\text{So, } \frac{x}{8} = \frac{x + 330}{23}$$

$$23x = 8x + 2640$$

$$15x = 2640$$

$$x = 176$$

$$\text{So the speed the train} = \frac{176}{8} = 22 \text{ m/s} = 79.2 \text{ Km/h}$$

Quantity II :

Let the original average speed of the car be x Km/h.

According to question,

$$\frac{180}{(x - 5)} - \frac{180}{x} = \frac{9}{60}$$

$$x^2 - 5x - 6000 = 0$$

$$x^2 - 80x + 75x - 6000 = 0$$

$$x(x - 80) + 75(x - 80) = 0$$

$$(x - 80)(x + 75) = 0$$



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$$x = 80, -75$$

Speed can't be negative. So, the value of $x = 80$

So the original average speed of the car = 80 Km/h

Hence, option B is correct.

9. Quantity I:

Let height of the cylinder = h cm

$$\text{So, } 2 \times \frac{22}{7} \times 14 \times h = 2376$$

$$h = \frac{(2376 \times 7)}{(2 \times 22 \times 14)}$$

$$h = 27 \text{ cm}$$

Therefore, total surface area of the cylinder

$$= 2 \times \frac{22}{7} \times 14 \times (14 + 27) = 3608 \text{ cm}^2$$

$$\text{Required cost} = 3608 \times 7 = \text{Rs. } 25256$$

Quantity II :

$$\text{Total surface area of the cuboid} = 2 \times (26 \times 19 + 19 \times 12 + 12 \times 26)$$

$$= 2 \times (494 + 228 + 312)$$

$$= 2 \times 1034$$

$$= 2068 \text{ m}^2$$

$$\text{Required cost} = 2068 \times 12 = \text{Rs. } 24816$$



So, Quantity-I > Quantity-II

Hence, option A is correct.

10. Quantity I :

Let the total work = LCM of (32 and 24) = 96 units

Number of units completed per day of A

$$= \frac{96}{32} = 3$$

Number of units completed per day of B

$$= \frac{96}{24} = 4$$

Reqd. number of days = $\frac{48}{3} + \frac{48}{4}$

$$= 16 + 12 = 28 \text{ days}$$

Quantity II :

Let the total work = LCM of (40 and 60) = 120 units

Number of units completed per day of A

$$= \frac{120}{40} = 3 \text{ units}$$

Number of units completed per day of B

$$= \frac{120}{60} = 2 \text{ units}$$

$$\text{Reqd. number of days} = \frac{60}{3} + \frac{60}{5}$$

$$= 20 + 12 = 32 \text{ days}$$

So, Quantity-I < Quantity-II

Hence, option B is correct.



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