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Quantity Comparison



Quantity Comparison

Here, you need to find the numerical values of the given quantities/questions and compare them according to the given options.

It is not a new individual topic. It is based on all the previously done topics, the way of asking question is different.

1. **Quantity I:** If A and B can do a piece of work in 10 days, B and C in 12 days and if all three are together then said work is done in 8 days. In how many days would C and A complete the work if working together?

Quantity II: A can do a piece of work in $\frac{2}{5}$ th of work in 10 days and B can do $\frac{1}{2}$ of the same work in 8 days. If both of them are working together then in how many days would the work get completed?

- 1) Quantity I $\geq$ Quantity II / मात्रा I $\geq$ मात्रा II
- 2) Quantity I $\leq$ Quantity II / मात्रा I $\leq$ मात्रा II
- 3) Quantity I $<$ Quantity II / मात्रा I $<$ मात्रा II
- 4) Quantity I = Quantity II / मात्रा I = मात्रा II
- 5) Quantity I $>$ Quantity II / मात्रा I $>$ मात्रा II

Answer. Option 5



2. Quantity - II and choose the correct option accordingly.

Quantity I: A, B, and C started a business with an initial investment of Rs. 1200, Rs. 1500, and 1800 respectively. A is the working partner so 16% of the profit is given to A for handling the business and the rest of the profit is shared among A, B, and C in the ratio of their investments. Find the amount received by A in a total profit of Rs. 2500.

Quantity II: P and Q started a business with initial investments of Rs. 4000 and Rs. 3000 respectively. After six months, R joined them with an investment of Rs. 2000. After one year total profit of Rs. 2520 is generated. Find the profit share of Q?

- 1) Quantity - I < Quantity - II
- 2) Quantity - I > Quantity - II
- 3) Quantity - I $\geq$ Quantity - II
- 4) Quantity - I $\leq$ Quantity - II
- 5) Quantity - I = Quantity - II

Answer. Option 2



3. Quantity I: The length, breadth, and height of a room is 14 m, 15 m and, 15 m respectively. The ceiling and the walls of the room require painting. What will be the area which requires painting?

Quantity II: The radius and height of the cylindrical pipe are 14 cm and 10.5 cm respectively. Find the curved surface area of the pipe.

- 1) Quantity II $>$ Quantity I
- 2) Quantity I $>$ Quantity II
- 3) Quantity II $\geq$ Quantity I
- 4) Quantity I = Quantity II or No Relation
- 5) Quantity II $\leq$ Quantity I

Answer. Option 2



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4.Quantity A - Time taken (in days) by X and Y to complete the work together. X takes 26 days alone while Y is 30% more efficient than X.

Quantity B - Time taken (in days) by 6 men and 6 children to complete the work. 10 men can complete the work in 8 days. Child is 75% as efficient as men.

- 1) Quantity $A \geq$ Quantity B**
- 2) Quantity $A \leq$ Quantity B**
- 3) Quantity $A =$ Quantity B or no relationship can be established**
- 4) Quantity $A >$ Quantity B**
- 5) Quantity $A <$ Quantity B**

Answer. Option 4



5. Quantity I: Two partners P and Q enter into partnership with ratio 2 : 3. They earn a profit of 20% on total investment out of which Q gets Rs 20,000 as profit earned. Calculate Sum invested by P

Quantity II: A product is sold at successive rates of 10% and 15% profit. If cost price of product is Rs 10,000 then what is selling price?

- 1) Quantity I $\geq$ Quantity II
- 2) Quantity I $\leq$ Quantity II
- 3) Quantity I $<$ Quantity II
- 4) Quantity I = Quantity II
- 5) Quantity I $>$ Quantity II

Answer. Option 5



6. Quantity 1 : A marks up the laptop by 30% profit and sells it at a discount of 20%. A's net gain % is?

Quantity 2 : If the cost price of 25 articles is equal to the selling price of 22 articles, find the gain percent.

- 1) $Q1 > Q2$**
- 2) $Q1 < Q2$**
- 3) $Q1 \geq Q2$**
- 4) $Q2 \geq Q1$**
- 5) $Q1 = Q2$ or no relation can be established**

Answer. Option 5



7. Average of the five consecutive odd numbers of Set A is $(P + 9)$ and the average of the five consecutive even numbers of Set B is $(P - 30)$.

Quantity I: Find the difference between the first odd number of Set A and first even number of set B?

Quantity II: If the sum of the largest numbers of Set A and B together is 147 then find 6 more than the 40% of value of P?

- 1) $Q1 > Q2$
- 2) $Q1 < Q2$
- 3) $Q1 \geq Q2$
- 4) $Q2 \geq Q1$
- 5) $Q1 = Q2$ or no relation can be established

Answer. Option 1



8. An amount of Rs. 15000 is gained after the simple interest at 20 % annum for the 3 years. The simple interest amount is x .

Quantity I: Find simple interest for the $(x + 4750)$ for 3 years at 10% annum.

Quantity II: Compound interest compounded half-yearly at $(x + 4375)$ for 1.5 years at 10% per annum

- 1) $Q1 > Q2$
- 2) $Q1 < Q2$
- 3) $Q1 \geq Q2$
- 4) $Q2 \geq Q1$
- 5) $Q1 = Q2$ or no relation can be established

Answer. Option 1



9. Rutuja bought two articles - article P at Rs. x and article Q at Rs. $x + 50$. She sold article P at 20% profit and article Q at 10% loss, and earned Rs. 35 as profit on the whole deal.

Quantity I : Profit earned by Rutuja on selling Article P(in Rs.)

Quantity II : Loss incurred (in Rs.) when an article which costs Rs. 480 is sold at 20% loss.

- 1) If Quantity I $\geq$ Quantity II
- 2) If Quantity I $>$ Quantity II
- 3) If Quantity I $<$ Quantity II
- 4) Quantity I = Quantity II or the relationship cannot be established from the information that is given
- 5) Quantity I $\leq$ Quantity II

Answer. Option 3



10. Train 'A' of length 360 meters crosses a tree in 12 seconds and the speed of the train is 'y' m/sec. '8y' meter long train 'B' can cross a man in 'x' seconds with speed is 20 m/sec.

Quantity (I): Find the value of $(y-x)$?

Quantity (II): If train 'A' overtakes train B in 'z' seconds, then find the value of ' $z/2$ '?

- 1) Quantity (I) > Quantity (II)
- 2) Quantity (I) < Quantity (II)
- 3) Quantity (I) = Quantity (II)
- 4) Quantity (I) $\geq$ Quantity (II)
- 5) Quantity (I) $\leq$ Quantity (II)

Answer. Option 2



11. **Quantity I:** The shopkeeper sold some apples to Rahul at the rate of 20 apples for Rs.60 and Rahul sold the same apples to Sam at the rate of 50 apples for Rs.300. What is the profit earned by Rahul?

Quantity II: A shopkeeper sold some apples and he sold 25% of the total apples at 20% profit, two-fifth of the total apples at 25% profit and sold the remaining apples at 20% profit. What is the overall profit or loss percentage to the

- 1) **Quantity (I) > Quantity (II)**
- 2) **Quantity (I) < Quantity (II)**
- 3) **Quantity (I) = Quantity (II)**
- 4) **Quantity (I) $\geq$ Quantity (II)**
- 5) **Quantity (I) $\leq$ Quantity (II)**

Answer. Option 1



12. Quantity I: A and B started the business with an investment ratio of 4:5 respectively. At the end of one year, 25% of the total profit goes to insurance and A's profit share is Rs.300, what is the total profit earned by them?

Quantity II: A and B started the business with the investment of Rs.x and Rs.(x + 500) respectively. At the end of one year, the total profit is Rs.3400 and B's profit share is Rs.2200. What is B's initial investment?

- 1) Quantity (I) > Quantity (II)**
- 2) Quantity (I) < Quantity (II)**
- 3) Quantity (I) = Quantity (II)**
- 4) Quantity (I) $\geq$ Quantity (II)**
- 5) Quantity (I) $\leq$ Quantity (II)**

Answer. Option 1



13. **Quantity I:** The ratio of the milk and water in the mixture is 4:3. If in 35 liters of the mixture, 10 liters of water is added, then what is the percentage of water in the final mixture?

Quantity II: In 2017 number of employees in the company is 2800 and the number of employees in 2019 is 4500. What is the approximate percentage increase in the number of employees from 2017 to 2019?

- 1) **Quantity (I) > Quantity (II)**
- 2) **Quantity (I) < Quantity (II)**
- 3) **Quantity (I) = Quantity (II)**
- 4) **Quantity (I) $\geq$ Quantity (II)**
- 5) **Quantity (I) $\leq$ Quantity (II)**

Answer. Option 2



14. **Quantity I:** The ratio of the present age of A and B is 3:8 respectively and after 4 years B's age is twice of A's age after 9 years. What is the present age of A?

Quantity II: If the Product of the ages of A and B is 437 and after 6 years A's age is 25 years, then what is the present age of B?

- 1) Quantity (I) > Quantity (II)
- 2) Quantity (I) < Quantity (II)
- 3) Quantity (I) = Quantity (II)
- 4) Quantity (I) $\geq$ Quantity (II)
- 5) Quantity (I) $\leq$ Quantity (II)

Answer. Option 2



15. **Quantity I:** A and B started the business with the investment in the ratio of 3:2 respectively. If at the end of one year, A's profit share is Rs.4800, then what is B's profit share?

Quantity II: A and B started the business with investments of Rs.2400 and Rs.x respectively. At the end of one year, the total profit is Rs.9000 and A's profit share is Rs.4000. Find the value of x?

- 1) Quantity (I) > Quantity (II)
- 2) Quantity (I) < Quantity (II)
- 3) Quantity (I) = Quantity (II)
- 4) Quantity (I) $\geq$ Quantity (II)
- 5) Quantity (I) $\leq$ Quantity (II)

Answer. Option 1



16. **Quantity I:** Ratio of the marked price to the cost price of the mobile is 3:2 respectively and the shopkeeper offers the discount of Rs.36. If the cost price of the mobile is Rs.300, then find the profit earned by the shopkeeper?

Quantity II: Rs.112

- 1) **Quantity (I) > Quantity (II)**
- 2) **Quantity (I) < Quantity (II)**
- 3) **Quantity (I) = Quantity (II)**
- 4) **Quantity (I) $\geq$ Quantity (II)**
- 5) **Quantity (I) $\leq$ Quantity (II)**

Answer. Option 1



17. **Quantity I:** Ratio of the number of male and female employees in company A is 6:5 and the number of male employees in B is 25% more than that of number of male employees in A and the number of female employees in B is 20% more than that of number of female employees in A. If the total number of employees in B is 1377, then find the total number of employees in A?

Quantity II: 1198

- 1) **Quantity (I) > Quantity (II)**
- 2) **Quantity (I) < Quantity (II)**
- 3) **Quantity (I) = Quantity (II)**
- 4) **Quantity (I) $\geq$ Quantity (II)**
- 5) **Quantity (I) $\leq$ Quantity (II)**

Answer. Option 2



18. **Quantity I:** What would be the compound interest accrued on an amount of Rs.6000 at the rate of 10% p.a in three years?

Quantity II: What would be the simple interest accrued on an amount of Rs.4800 at the rate of 12% p.a in three years?

- 1) Quantity (I) > Quantity (II)
- 2) Quantity (I) < Quantity (II)
- 3) Quantity (I) = Quantity (II)
- 4) Quantity (I) $\geq$ Quantity (II)
- 5) Quantity (I) $\leq$ Quantity (II)

Answer. Option 1



19. **Quantity I:** The ratio of the length of the rectangle to breadth of a rectangle is 8:5. The ratio of the radius of the circle to breadth of the rectangle is 7:10. If the area of the rectangle is 640 cm^2 , then find the area of the circle?

Quantity II: Perimeter of the square is 100 cm. Find the area of the square?

- 1) Quantity (I) > Quantity (II)
- 2) Quantity (I) < Quantity (II)
- 3) Quantity (I) = Quantity (II)
- 4) Quantity (I) $\geq$ Quantity (II)
- 5) Quantity (I) $\leq$ Quantity (II)

Answer. Option 2



20. **Quantity I:** 3 years ago, the age of Pukal is 20% more than the age of Indhu at that time. If the average age of Pukal and Indhu, 4 years hence is 23.5 and then find the present age of Pukal?

Quantity II: The ratio of the present age of A and C is 8:5 respectively. If 3 years ago, the present age of B is 7 years older than the present age of C and the sum of the present ages of A, B and C is 100 and then find the age of B, 3 years ago?

- 1) **Quantity (I) > Quantity (II)**
- 2) **Quantity (I) < Quantity (II)**
- 3) **Quantity (I) = Quantity (II)**
- 4) **Quantity (I) $\geq$ Quantity (II)**
- 5) **Quantity (I) $\leq$ Quantity (II)**

Answer. Option 2



21. **Quantity I:** Boat A travels in a stream and takes 6.4 hrs to complete a round trip, going 78 km in each direction. If the ratio of speed in still water of the boat to the stream speed is 8:5, what is the speed in still water of the boat?

Quantity II: Amrit travels at the speed of 42 km/hr for 3 hrs and 36 km/hr for 2 hrs, what is his average speed for the journey of 5 hrs?

- 1) Quantity (I) > Quantity (II)
- 2) Quantity (I) < Quantity (II)
- 3) Quantity (I) = Quantity (II)
- 4) Quantity (I) $\geq$ Quantity (II)
- 5) Quantity (I) $\leq$ Quantity (II)

Answer. Option 1



22 . **Quantity I:** A sum of money Rs. 12000 is invested into compound interest at 5% per annum for 2 years, then what will be amount earned at the end of two years?

Quantity II: A sum of money Rs. 15000 is invested into simple interest at 8% per annum for two years, then what will be the amount earned at the end of two years?

- 1) Quantity (I) > Quantity (II)
- 2) Quantity (I) < Quantity (II)
- 3) Quantity (I) = Quantity (II)
- 4) Quantity (I) $\geq$ Quantity (II)
- 5) Quantity (I) $\leq$ Quantity (II)

Answer. Option 2



23. **Quantity I:** Mohan purchased two articles at same price at Rs. 2550 and he sold one article at 24% of profit and another at 42% of profit, then what is the difference between the selling price of both articles?

Quantity II: Karim purchased an article and marked up 10% above its cost price while selling the article he gave discount of 5%, then what is the cost price of the article if he earned Rs. 18 as profit?

- 1) Quantity (I) > Quantity (II)
- 2) Quantity (I) < Quantity (II)
- 3) Quantity (I) = Quantity (II)
- 4) Quantity (I) $\geq$ Quantity (II)
- 5) Quantity (I) $\leq$ Quantity (II)

Answer. Option 1

