



Bh. Aptitude

**Basic Aptitude test practice
questions & answers for Engineers**

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PROBLEMS

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100 practice questions

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Time & Distance

Collection of problems based on time and distance to strength the concept of time, distance in aptitude. Take the test and solve 25 questions in 30 minutes.

Q1. A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?

- (A) 3.2 (B) 7.2 (C) 8.4 (D) 10
-

Q2. An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 hours, it must travel at a speed of:

- (A) 300 kmph (B) 360 kmph
(C) 600 kmph (D) 720 kmph
-

Q3. A car covers its journey at the speed of 80km/hr in 10hours. If the same distance is to be covered in 4 hours, by how much the speed of car will have to increase?

- (A) 40 kmph (B) 60 kmph (C) 90 kmph (D) 120 kmph
-

Q4. A person walking at 4 Kmph reaches his office 8 minutes late. If he walks at 6 Kmph, he reaches there 8 minutes earlier. How far is the office from his house?

- (A) 3.5 km (B) 4.5 km (C) 5.5 km (D) 7.5km
-

Q5. An express train travelled at an average speed of 100 km/hr, stopping for 3 minutes after every 75 km. How long did it take to reach its destination 600 km from the starting point?

- (A) 6.27hr (B) 6.25hr (C) 6.21hr (D) 6.28hr
-

Q6. Two trains starting at the same time from 2 stations 200 km apart and going in opposite direction cross each other at a distance of 110 km from one of the stations. What is the ratio of their speeds?

- (A) 11:9 (B) 7:3 (C) 8:4 (D) None
-

Q7. Walking at the rate of 4 kmph a man cover a certain distance in 2 hr 45 min. Running at a speed of 16.5 kmph the man will cover the same distance in.

- (A) 12 min (B) 40 min (C) 50 min (D) 60 min

Q8. Walking $\frac{6}{7}$ th of his usual speed, a man is 12 minutes too late. What is the usual time taken by him to cover that distance?

- (A) 1 hr 42min (B) 1 hr (C) 2 hr (D) 1 hr 12 min
-

Q9. The speed of a car increases by 2 kms after every one hour. If the distance travelling in the first one hour was 35 kms. what was the total distance travelled in 12 hours?

- (A) 456 km (B) 482 km (C) 558 km (D) 552 km
-

Q10. A runner can complete a 750 m race in two and a half minutes. Will he be able to beat another runner who runs at 17.95 km/hr?

- (A) Yes (B) No (C) Insufficient Data (D) None of these
-

Q11. Express 25 mps in kmph?

- (A) 15 kmph (B) 99 kmph (C) 90 kmph (D) None of these
-

Q12. How long will a boy take to run round a square field of side 35 meters, If he runs at the rate of 9 km/hr?

- (A) 50 sec (B) 52 sec (C) 54 sec (D) 56 sec
-

Q13. A speed of a train is 20 meters per second. It can cross a pole in 10 seconds. What is the length of a train?

- (A) 150 m (B) 250 m (C) 200 m (D) 300 m
-

Q14. Nancy travelled a distance of 455 km by car in 10 hours. Find the speed of the car.

- (A) 25.5 km/hr (B) 45.5 km/hr (C) 30 km/hr (D) 65 km/hr

Q15. A person goes from A to B at the speed of 40 kmph and comes back at the speed of 60 kmph. What is his average speed for the whole journey?

- (A) 56 km/h (B) 48 km/h (C) 36 km/h (D) 25 km/h
-

Q16. Wind blows 160 miles in 330min for 80 miles how much time required

- (A) 165 (B) 162 (C) 159 (D) 160
-

Q17. Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?

- (A) 9 (B) 10 (C) 12 (D) 20
-

Q18. A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?

- (A) 3.6 (B) 7.2 (C) 8.4 (D) 10
-

Q19. A bus moves at a speed of 81 km/h. What is the speed of the bus in meters per second?

- (A) 22.65 (B) 22.5 (C) 28.5 (D) 20.5
-

Q20. A motorboat covers 25 km upstream and 39 km downstream by travelling at the same speed for 8 hours. On another occasion with the same speed, it covers 35 km upstream and 52 km downstream in 11 hours. What is the speed of the stream?

- (A) 5 km/hr (B) 4 km/hr (C) 3 km/hr (D) 2 km/hr
-

Q21. The ratio between the speeds of two trains is 7: 8. If the second train runs 400 km in 4 hours, then the speed of the first train is?

- (A) 83.5 km/hr (B) 87.5 km/hr (C) 84.5 km/hr (D) 86.5 km/hr

Q22. A salesman sold twice as many pears in the afternoon than in the morning. If he sold 360 kilograms of pears that day, how many kilograms did he sell in the morning and how many in the afternoon?

- (A) 240 (B) 200 (C) 150 (D) 360
-

Q23. A car takes 6 hours to cover a distance of 540 Km. how much should the speed in Kmph be maintained to cover the same direction in $\frac{3}{2}$ th of the previous time?

- (A) 60 Kmph (B) 62 Kmph (C) 75 Kmph (D) 77 Kmph
-

Q24. A thief is noticed by a policeman from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at the rate of 10 km and 11 km per hour respectively. What is the distance between them after 6 minutes?

- (A) 50 meter (B) 110 meter (C) 100 meter (D) None of these
-

Q25. Mary, Peter, and Lucy were picking chestnuts. Mary picked twice as many chestnuts than Peter. Lucy picked 2 kg more than Peter. Together the three of them picked 26 kg of chestnuts. How many kilograms did each of them pick?

- (A) 6,12,8 (B) 6,16,18 (C) 12,5,15 (D) 18,5,25



Ratio & Proportion

Collection of problems based on ratio and proportion to strength the concept of ratios & proportion in aptitude.
Take the test and solve 25 questions in 30 minutes.

Q1. A mixture contains alcohol and water in the ratio 4 : 3. If 5 liters of water is added to the mixture, the ratio becomes 4: 5. Find the quantity of alcohol in the given mixture.

- (A) 10 (B) 12 (C) 15 (D) 18
-

Q2. A bag contains 50 P, 25 P and 10 P coins in the ratio 5: 9: 4, amounting to Rs. 206. Find the number of coins of each type respectively.

- (A) 360, 160, 200 (B) 160, 360, 200 (C) 200, 360, 160 (D) 200, 160, 300
-

Q3. Find the third proportional to 9 and 12?

- (A) 9 (B) 108 (C) 16 (D) 48
-

Q4. In a certain room, there are 28 women and 21 men. What is the ratio of men to women? What is the ratio of women to the total number of people?

- (A) 5:4 (B) 4:7 (C) 6:3 (D) 8:7
-

Q5. In a bag, there are a certain number of toy-blocks with alphabets A, B, C and D written on them. The ratio of blocks A:B:C:D is in the ratio 4:7:3:1. If the number of 'A' blocks is 50 more than the number of 'C' blocks, what is the number of 'B' blocks?

- (A) 650 (B) 480 (C) 578 (D) 350
-

Q6. Arrange the following ratios in descending order. 2 : 3, 3 : 4, 5 : 6, 1 : 5

- (A) 5 : 6 > 3 : 4 > 2 : 3 > 1 : 5 (C) 5 : 6 < 3 : 4 > 2 : 3 < 1 : 5
(B) 5 : 6 > 3 : 4 < 2 : 3 > 1 : 5 (D) 5 : 6 < 3 : 4 < 2 : 3 < 1 : 5
-

Q7. Find the fourth proportional to 2.4, 4.6 and 7.6?

- (A) 14 (B) 14.657 (C) 15.56 (D) 14.56

Q8. If $a:b=1:2$ and $b:c=3:4$ find $a:b:c?$

- (A) 3:8:6 (B) 3:12:6 (C) 3:6:8 (D) 1:2:4
-

Q9. The length and width of a rectangle are in the ratio 3:5. If its perimeter is 48 cm, find its length and width.

- (A) 9,15 (B) 6,18 (C) 5,14 (D) 8,20
-

Q10. Given ratio are : $a:b = 2:3$ $b:c = 5:2$ $c:d = 1:4$ Find $a:b:c.$

- (A) 2:3:6 (B) 4:5:6 (C) 10:15:6 (D) 1:5:7
-

Q11. Rs. 120 are divided among A, B, C such that A's share is Rs. 20 more than B's and Rs. 20 less than C's. What is B's share

- (A) Rs 10 (B) Rs 20 (C) Rs 24 (D) Rs 28
-

Q12. In a college, the ratio of the number of boys to girls is 8 : 5. If there are 200 girls, the total number of students in the college is

- (A) 420 (B) 520 (C) 620 (D) 720
-

Q13. If the ratio of men to women at a party is 4:7, which of the following could be the number of people at the party?

- (A) 50 (B) 64 (C) 66 (D) 70
-

Q14. In a group, the ratio of doctors to lawyers is 5:4. If the total number of people in the group is 72, what is the number of lawyers in the group?

- (A) 58 (B) 62 (C) 78 (D) 32

Q15. In a mixture of 45 liters, the ratio of sugar solution to salt solution is 1:2. What is the amount of sugar solution to be added if the ratio has to be 2:1?

- (A) 5:4 (B) 6:7 (C) 1:5 (D) 2:1
-

Q16. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is B's share?

- (A) Rs. 500 (B) Rs. 1500 (C) Rs. 2000 (D) None of these
-

Q17. A sum of Rs.312 was divided among 100 boys and girls in such a way that the boy gets Rs.3.60 and each girl Rs.2.40 the number of girls is

- (A) 35 (B) 40 (C) 45 (D) 50
-

Q18. Salaries of Ravi and Sumit are in the ratio 2:3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40:57. What is Sumit's salary?

- (A) 38000 (B) 46800 (C) 36700 (D) 50000
-

Q19. If $a:b = 3:4$, $b:c = 7:9$, $c:d = 5:7$, find $a:d$?

- (A) 5:12 (B) 7:12 (C) 3:11 (D) 5:11
-

Q20. Find the fourth proportional to 0.2, 0.12 and 0.3?

- (A) 0.13 (B) 0.18 (C) 0.8 (D) 0.15
-

Q21. There are three numbers such that one number is 20% more than a third number and the second number is 50% more than a first number. The ratio of two numbers is?

- (A) 2 : 3 (B) 3 : 4 (C) 4 : 6 (D) 3 : 2

Q22. In a mixture 60 litres, the ratio of milk and water 2 : 1. If the this ratio is to be 1 : 2, then the quantity of water to be further added is

- (A) 20 liters (B) 30 liters (C) 50 liters (D) 60 liters
-

Q23. The number of candidates writing three different entrance exams is in the ratio 4:5:6. There is a proposal to increase these numbers of candidates by 40%, 60% and 85% respectively. What will be the ratio of increased numbers?

- (A) 14:15:16 (B) 12:15:19 (C) 13:19:21 (D) none of these
-

Q24. If $A : B = 5 : 7$ and $B : C = 6 : 11$, then $A : B : C$ is :

- (A) 55 : 77 : 66 (B) 55 : 77 : 66 (C) 35 : 49 : 42 (D) none of these
-

Q25. If $a:b=1:2$ and $b:c=3:4$ find $a:b:c$?

- (A) 3:8:6 (B) 3:12:6 (C) 3:6:8 (D) 1:2:4



Profit & Loss

Collection of problems based on profit and loss to strength the concept of profit, loss in aptitude. Take the test and solve 25 questions in 30 minutes.

Q1. If a cost price of a pencil box is Rs.67 and selling price is Rs.70. Is there is profit or loss?

- (A) Rs.2 (B) Rs.3 (C) Rs.4 (D) Rs.5
-

Q2. Find profit or loss: C.P = Rs.870 and S.P = Rs.770

- (A) Rs.180 (B) Rs.150 (C) Rs.120 (D) Rs.100
-

Q3. A man buys an article for Rs. 27.50 and sells it for Rs 28.60. Find his gain percent

- (A) 1% (B) 2% (C) 3% (D) 4%
-

Q4. A shopkeeper buys a TV at Rs.42000 and sells it a Rs.45000.What is his profit or loss?

- (A) Rs.2500 (B) Rs.3000 (C) Rs.4500 (D) Rs.2000
-

Q5. A merchant sold an article at 10% loss. If he had sold it Rs 450 more, 8% would have been gained on the cost price. Find the cost price?

- (A) Rs.1200 (B) Rs.1800 (C) Rs.1500 (D) Rs.2500
-

Q6. Alfred buys an old scooter for Rs. 4700 and spends Rs. 800 on its repairs. If he sells the scooter for Rs. 5800, his gain percent is:

- (A) 4 4/7% (B) 5 5/11% (C) 10% (D) 12%
-

Q7. A manufacturing company employs 10 machines, the aggregate output of which for a year is Rs 42000, and pays 10% of the profit to its shareholders. The manufacturing expenses for a year are Rs.1800 per machine and the establishment charges Rs 9000 per annum. What percent of the original profit will it pay to its shareholders, if one machine breaks down and are idle for one year?

- (A) 7 3/10 % (B) 3 % (C) 8 2/5 % (D) 9 1/3 %

Q8. A kind of tape is selling at a profit of 12% of selling price, equal to 18 cents per yard. What is the selling price of the tape?

- (A) \$ 1.50 (B) \$ 1.00 (C) \$ 1.20 (D) none of these
-

Q9. A vendor bought bananas at 6 for a rupee. How many for a rupee must he sell to gain 20%?

- (A) 3 (B) 4 (C) 5 (D) 6
-

Q10. If a man reduces the selling price of a fan from Rs.400 to Rs.380, his loss increases by 2%. The cost price of the fan is

- (A) Rs. 480 (B) Rs. 500 (C) Rs. 600 (D) Rs. 1000
-

Q11. A dealer buys a product at Rs. 1920, he sells at a discount of 20% still he gets the profit of 20 %. What is the selling price of that product?

- (A) Rs.1159 (B) Rs.1550 (C) Rs.2304 (D) Rs.1785
-

Q12. Samant bought a microwave oven and paid 10 % less than the original price. He sold it with 30% profit on the price he had paid. What percentage of profit did Samant earn on the original price?

- (A) 17% (B) 20% (C) 27% (D) 32%
-

Q13. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, find the value of x ?

- (A) 15 (B) 25 (C) 18 (D) 16
-

Q14. If selling price is doubled the profit triples. Find the profit percent

- (A) $66\frac{2}{3}$ (B) 105 (C) $105\frac{1}{3}$ (D) 120

Q15. The price of commodity X increases by 40 paise every year, while the price of commodity Y increases by 15 paise every year. If in 2001, the price of commodity X was Rs. 4.20 and that of Y was Rs. 6.30, in which year commodity X will cost 40 paise more than the commodity Y?

- (A) 2010 (B) 2011 (C) 2012 (D) 2013
-

Q16. David purchased a house for Rs.75000 and a site for Rs.15000 respectively, if he sold the house for Rs.83000 and the site for Rs.10000, then find the resultant percentage of gain?

- (A) 30 % (B) 330/3% (C) 31/3 % (D) 3.33 %
-

Q17. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, find out the value of x?

- (A) 13 (B) 14 (C) 15 (D) 16
-

Q18. By selling 33 m of carpet, a man loses an amount equal to the selling price of 3 m of carpet. Find his gain or loss percent.

- (A) 8 1/3% (B) 2/3% (C) 8 1/2% (D) 7 3/4%
-

Q19. A man buys a toy for Rs. 25 and sells it for Rs. 30. Find his gain/loss percentage.

- (A) 20% (B) 70% (C) 80% (D) 40%
-

Q20. Sam purchased 20 dozens of toys at the rate of Rs. 375 per dozen. He Sold each one of the rate of Rs. 33.What was his percentage profit?

- (A) 3.5 (B) 4.5 (C) 5.6 (D) 6.5

Q21. The owner of an electronics shop charges his customer 22% more than the cost price. If a customer paid Rs 10,980 for a DVD player, then what was the cost price of the DVD player?

- (A) Rs 8000 (B) 8800 (C) 9500 (D) 9000
-

Q22. John buys an old scooter for Rs. 4700 and spends Rs. 800 on its repairs. If he sells the scooter for Rs. 5800, what is his gain percent?

- (A) 12% (B) 10% (C) 4 4/7% (D) 5 5/11%
-

Q23. A shopkeeper fixes the marked price of an item 35% above its cost price. The percentage of discount allowed to gain 8% is

- (A) 20% (B) 27% (C) 31% (D) 43%
-

Q24. A trader mixes 26 kg of rice at Rs. 20 per kg with 30 kg of rice of other variety at Rs. 36 per kg and sells the mixture at Rs. 30 per kg. His profit percent is:

- (A) No profit, no loss (B) 5% (C) 8% (D) 10%
-

Q25. If the cost price is 25% of selling price. Then what is the profit percent.

- (A) 150% (B) 200% (C) 300% (D) 350%



Numbers & Ages

Collection of problems based on numbers & ages to strength the concept of numbers & ages in aptitude. Take the test and solve 25 questions in 30 minutes.

Q1. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?

- (A) 4 years (B) 8 years (C) 10 years (D) None of these

Q2. Father is four times more than the age of his daughter. If after 5 years, he would be four times of daughter's age, then further after 5 years, how many times he would be of his daughter's age?

- (A) 1.5 time (B) 2 times (C) 2.5 times (D) 3 times

Q3. Raju age after 15 years will be 5 times his age 5 years back, What is the present age of Raju

- (A) 15 (B) 14 (C) 10 (D) 8

Q4. What is John's present age, if after 10 years his age will be 5 times his age 5 years back.

- (A) 6.2 years (B) 7.7 years (C) 8.7 years (D) 10 years

Q5. Ten years ago, P was half of Q's age. If the ratio of their present ages is 3:4, what will be the total of their present ages?

- (A) 45 (B) 40 (C) 35 (D) 30

Q6. When Rajesh was born, his father age was 29 years older than his Brother and his Mother was 25 years older than his Sister. If his Brother is 2 years elder than his Sister. After 6 years the average age of the family is 20. Then what is the age of Mother when Rajesh was born?

- (A) 27 (B) 28 (C) 29 (D) 30

Q7. Mindy's current age is 3 times that of her daughter, Cindy. 4 years ago, Mindy's age was 4 times that of her daughter, what will be Cindy's age 5 years from now?

- (A) 17 Years (B) 21 Years (C) 15 Years (D) 27 Years
-

Q8. The ages of two persons differ by 16 years. 6 years ago, the elder one was 3 times as old as the younger one. What are their present ages of the elder person?

- (A) 30 (B) 25 (C) 20 (D) 15
-

Q9. The present ages of three persons in proportions 4 : 7 : 9. Eight years ago, the sum of their ages was 56. Find their present ages (in years).

- (A) 8, 20, 28 (B) 16, 28, 36 (C) 20, 35, 45 (D) None of these
-

Q10. The sum of present ages of Ashok, Anil and Ajay is 75 years. If 5 years ago the ratio of their ages was 3 : 4 : 5, What is the present age of Anil?

- (A) 26 Years (B) 25 Years (C) 32 Years (D) 65 Years
-

Q11. Sachin is younger than rahul by 4 years. If their ages are in the respective ratio of 7:9, how old is Sachin?

- (A) 16 years (B) 18 years (C) 28 years (D) Cannot be determined
(E) None of these
-

Q12. A father said his son, " I was as old as you are at present at the time of your birth. " If the father age is 38 now, the son age 5 years back was :

- (A) 14 (B) 19 (C) 33 (D) 38

Q13. Ten years ago A was half of B in age. If the ratio of their present ages is 3: 4, what will be the total of their present ages?

- (A) 30 (B) 35 (C) 37 (D) 41
-

Q14. My present age is 432 times the reciprocal of my age 6 years back. What is my present age?

- (A) 24 years (B) 25 years (C) 23 years (D) 26 years
-

Q15. Ten years ago, the age of mother was three times the age of her son. After ten years, mother's age will be twice that of his son. Find the ratio of their present ages.

- (A) 11:7 (B) 9:5 (C) 7:4 (D) 7:3
-

Q16. A man said to his son, "I was one-third of your present age when you were born". If the present age of the man is 48 years, find the present age of the son.

- (A) 25.7 years (B) 28 years (C) 29.3 years (D) 36 years
-

Q17. Sachin was twice as old as Ajay 10 years back. How old is Ajay today if Sachin will be 40 years old 10 years hence

- (A) 18 (B) 15 (C) 25 (D) 20
-

Q18. Ramesh is younger than Rahul by 7 years. If the ratio of their ages is 7:9, find the age of Sachin

- (A) 24.5 (B) 25.5 (C) 26.5 (D) 27.5

Q19. The total age of A and B is 12 years more than the total age of B and C. C is how many years younger than A

- (A) 11 (B) 12 (C) 13 (D) 14
-

Q20. P is 13 years older than Q, and Q's age is 6 times the age of R. If the sum of their ages today is 117, then what is the age of Q?

- (A) 48 years (B) 49 years (C) 47 years (D) 50 years
-

Q21. Ten years ago, P was half of Q in age. If the ratio of their present ages is 3:4, what will be the total of their present ages?

- (A) 35 (B) 34 (C) 45 (D) 25
-

Q22. The ratio between the present ages of P and Q is 6:7. If Q is 4 years old than P, what will be the ratio of the ages of P and Q after 4 years

- (A) 7:8 (B) 7:9 (C) 3:8 (D) 5:8
-

Q23. The sum of the present ages of a father and his son is 60 years. Five years ago, father's age was four times the age of the son. So now the son's age will be:

- (A) 5 (B) 10 (C) 15 (D) 20
-

Q24. Raj's age is 4 times that of Dhiraj, his cousin. 3 years back, Raj was 5 times as old as Dhiraj. What is his present age?

- (A) 12 years (B) 16 years (C) 24 years (D) 48 years
-

Q25. A man's current age is $(2/5)$ of the age of his father. After 8 years, he will be $(1/2)$ of the age of his father. What is the age of the father at now?

- (A) 50 years (B) 40 years (C) 33 years (D) 43 years

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"Preparation for aptitude test is simply training your brain to think sharp logically & practically, and that happens with constant practice irrespective of any book"