Spardhaguru India Private Limited

10 Years of Excellence

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VEDIC Mathematics

Increase or decrease

1) A number is decreased by 10% and the resulting number is again decreased by 20%. What is the final percentage of decrease?
a) 26%   b) 28%   c) 27%   d) 25%

2) Salary of a person is first increased by 20%, then it is decreased by 20%. Percentage change in his salary is :
a) 4% increased   b) 20% increased
c) 8% decreased   d) 4% decreased

3) A man spends 75% of his income. His income increases by 20% and his expenditure also increases by 10%. The percentage of increase in his savings is
a) 30%   b) 25%   c) 50%   d) 40%

4) If the income tax is increased by 19%, the net income is reduced by 1%. The rate of income tax is
a) 4%   b) 7.2%   c) 5%   d) 6%

5) If a number is increased by 25% and the resulting number is decreased by 25%. then the percentage increase or decrease finally is
a) decreased by $6\frac{1}{4}$ %   b) increased by 6%
c) increased by $6\frac{1}{4}$ %   d) no change

Reducing and Exceeding Prices

1) A number, on subtracting 15 from it, reduces to its 80%. What is 40% of the number?
a) 75   b) 30   c) 90   d) 60

2) A reduction of 20% in the price of sugar enables a purchaser to obtain 8 kg more for Rs.160. Then the price per kg before reduction was
a) Rs.5   b) Rs.10
c) Rs.4   d) Rs.6

3) The price of an item was increased by 10%. This reduced the monthly total sales by 20%. The overall effect on the value of monthly sales is a
a) 10% increase   b) 12% increase

c) 12% decrease   d) 10% decrease

4) The salary of a person is reduced by 20%. To restore the previous salary, his present salary is to be increased by
a) 20%   b) 17.5%
c) 22.5%   d) 25%

5) Due to a price hike of 20%, 4 kg. less sugar is available for Rs. 120. What is the initial price per kg of sugar ?
a) Rs.5 per kg.   b) Rs.6 per kg.
c) Rs.5.5 per kg.   d) Rs.4 per kg.

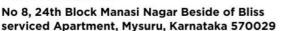## X and Y Comparison

1) A's salary is 50% more than that of B. Then B's salary is less than that of A by
a) $33\frac{1}{4}$ %   b) 50%
c) $44\frac{1}{2}$ %   d) $33\frac{1}{3}$ %

2) Two numbers are less than a third number by 30% and 37% respectively. The per cent by which the second number is less than the first is
a) 4%   b) 10%   c) 3%   d) 7%

3) Two numbers are respectively $12\frac{1}{2}$ % and 25% more than a third number. The first number as percentage of second number is
a) 75   b) 50   c) 90   d) 60

4) A number when reduced by 10% gives 30. The number is
a) 40   b) $33\frac{1}{2}$
c) 35   d) $33\frac{1}{3}$

5) If the salary of Manoj is 40% less than that of Subhash, then by how much percentage is the salary of Subhash more than that of Manoj?
a) $66\frac{2}{3}$ %   b) 60%
c) 65%   d) $66\frac{1}{4}$ %

Income and Expenditure

1) The salary of a person is decreased by 25% and then the decreased salary is increased by 25%. His new salary in comparison with his original salary is
a) 6.25% less   b) 6.25% more
c) The same   d) 0.625% less

2) What per cent decrease in salaries would exactly cancel out the 20 per cent increase?
a) $33\frac{1}{3}$ %   b) $16\frac{2}{3}$ %
c) 20%   d) 18%

3) Radha spends 40% of her salary on food, 20% on house rent, 10% on entertainment and 10% on conveyance. If her savings at the end of a month are Rs.1500, then her salary per month (in Rs.) is
a) Rs.6000   b) Rs.7500
c) Rs.8000   d) Rs.10000

4) X's income is 20% more than that of Y. What per cent is Y's income less than X ?
a) $83\frac{2}{3}$ %   b) $16\frac{2}{3}$ %
c) $83\frac{1}{3}$ %   d) $16\frac{1}{3}$ %

5) If the total monthly income of 16 persons is Rs.80,800 and the income of one of them is 120% of the average income, then his income is
a) Rs.6,160   b) Rs.6,060
c) Rs.5,050   d) Rs.6,600

Consumption & Remaining

1) Water tax is increased by 20% but its consumption is decreased by 20%. Then the increase or decrease in the expenditure of the money is
a) 4% increase   b) 4% decrease
c) 5% decrease   d) No change

2) If the price of a commodity is increased by 50%, by what fraction must its consumption be reduced so as to keep the same expenditure on its consumption ?
a) $\frac{2}{3}$ b) $\frac{1}{3}$ c) $\frac{1}{4}$ d) $\frac{1}{2}$

3) The price of a certain item is increased by 15%. If a consumer wants to keep his expenditure on the item the same as before, how much per cent must he reduce his consumption of that item ?
a) $10\frac{20}{23}$ %   b) $13\frac{1}{23}$ %
c) 15%   d) $16\frac{2}{3}$ %

4) If the price of tea is increased by 20%, by how much per cent the consumption of tea be reduced so that there is no increase in the expenditure on it ?
a) $8\frac{1}{3}$ %   b) 20%
c) $83\frac{1}{3}$ %   d) $16\frac{2}{3}$ %

5) The price of petrol is increased by 25%. By how much per cent a car owner should reduce his consumption of petrol so that the expenditure on petrol would not be increased?
a) 20%   b) 30%   c) 25%   d) 50%

Marks scored in Examination

) In a group of students, 70% can speak English and 65% can speak Hindi. If 27% of the students can speak none of the two languages, then what per cent of the group can speak both the languages ?
a) 28%   b) 62%   c) 23%   d) 38%

2) A candidate secured 30% marks in an examination and failed by 6 marks. Another secured 40% marks and got 6 marks more than the bare minimum to pass. The maximum marks are
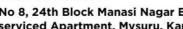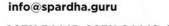a) 100   b) 120   c) 180   d) 150

3) In an examination, there were 1000 boys and 800 girls. 60% of the boys and 50% of the girls passed. Find the percent of the candidates failed ?

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SGIPLCECCMC Percentage

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Vedic Mathematics

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a) 44.4%   b) 48.4%
c) 49.6%   d) 46.4%

4) A student has to obtain 33% of total marks to pass. He got 25% of total marks and failed by 40 marks. The number of total marks is
a) 500   b) 300
c) 1000   d) 800

5) For an examination it is required to get 36 % of maximum marks to pass. A student got 113 marks and failed by 85 marks. The maximum marks for the examination are :
a) 565   b) 550
c) 620   d) 500

Population based

1) The present price of a scooter is Rs. 7,290. If its value decreases every year by 10%, then its value 3 years back was
a) Rs. 8,000   b) Rs. 10, 500
c) Rs. 10,000   d) Rs. 11,500

2) The population of a village was 9800. In a year, with the increase in population of males by 8% and that of females by 5%, the population of the village became 10458. What was the number of males in the village before increase ?
a) 4410   b) 4200
c) 5600   d) 6048

3) The population of a town 2 years ago was 62,500. Due to migration to big cities, it decreases every year at the rate of 4%. The present population of the town is:
a) 56,700   b) 57,600
c) 76,000   d) 75,000

4) The value of a machine is Rs.6,250. It decreases by 10% during the first year, 20% during the second year and 30% during the third year. What will be the value of the machine after 3 years?
a) Rs.3, 050   b) Rs.2, 650

c) Rs.3, 150   d) Rs.3, 510

5) The value of a property decreases every year at the rate of 5%. If its present value is Rs.4,11,540, what was its value 3 years ago ?
a) Rs.4,60,000   b) Rs.4,50,000
c) Rs.4,75,000   d) Rs.4,80,000

Voters and Election

1) At an election there were two candidates. A candidate got 38% of votes and lost by 7200 number of votes. The total number of valid votes were
a) 16200   b) 13000
c) 30000   d) 13800

2) In an election, a candidate secures 40% of the votes but is defeated by the only other candidate by a majority of 298 votes. Find the total number of votes recorded.
a) 1470   b) 1580
c) 1530   d) 1490

3) In an election between two candidates, the candidate getting 60% of the votes polled, is elected by a majority of 14,000 votes. The number of votes polled by the winning candidate is
a) 42,000   b) 28,000
c) 46,000   d) 32,000

4) In an election there were only two candidates. One of the candidates secured 40% of votes and is defeated by the other candidate by 298 votes. The total number of votes polled is
a) 1490   b) 745
c) 1500   d) 1460

5) In an election 10% of the voters on the voters' list did not cast their votes and 60 voters cast their ballot papers blank. There were only two candidates. The winner was supported by 47% of all the voters in the list and he got

308votes more than his rival. The number of voters on the list was

a) 4575   b) 3600
c) 6028   **d) 6200**

Allegations & Mixture

1) 200 liters of a mixture contains 15% water and the rest is milk. The amount of milk that must be added so that the resulting mixture contains 87.5% milk is

a) 45 liters   b) 30 liters
c) 35 liters   **d) 40 liters**

2) In what ratio must 25% of alcohol be mixed with 50% of alcohol to get a mixture of 40% strength alcohol ?

a) 3 : 2   b) 1 : 2
c) 2 : 1   **d) 2 : 3**

3) 75 gm of sugar solution has 30% sugar in it. Then the quantity of sugar that should be added to the solution to make the quantity of the sugar 70% in the solution, is

a) 130 gm   b) 125 gm
c) 100 gm   d) 120 gm

4) 300 grams of sugar solution has 40% of sugar in it. How much sugar should be added to make it 50% in the solution?

a) 80 gram   b) 40 gram
c) 10 gram   **d) 60 gram**

5) How much water must be added to 100 ml of 80 per cent solution of boric acid to reduce it to a 50 per cent solution ?

a) 60 ml   b) 30 ml
c) 40 ml   d) 50 ml

Percentage with Ratios

1) If 60% of A = $\frac{3}{4}$ of B, then A : B is

a) 4 : 5   **b) 5 : 4**
c) 20 : 9   d) 9 : 20

2) The prices of a school bag and a shoe are in the ratio 7 : 5. The price of a school bag is Rs.200 more than the price of a shoe. Then the price of a shoe is

a) Rs.500   b) Rs.1, 200
c) Rs.700   d) Rs.200

3) The ratio of the number of boys and girls in a college is 3 : 2. If 20% of boys and 25% of girls are adults, the percentage of those students who are not adults, is

a) 78%   b) 82.5%
c) 67.5%   d) 58%

4) When 60% of a number is subtracted from another number, the second number reduces to its 52%; the ratio of the first number to the second number is :

a) 5: 4   **b) 4: 5**
c) 5: 3   d) 6: 5

5) If 15% of x is same as 20 % of y then x : y is

a) 6 : 5   b) 3 : 4
c) 5 : 4   **d) 4 : 3**

6) The ratio of the number of boys and girls in a school is 2 : 3. If 25% of the boys and 30% of the girls are scholarship holders, the percentage of the school students who are not scholarship holders is

a) 54   b) 60   c) 36   **d) 72**