CAVALRY DEFENCE ACADEMY, (CDA) DEHRADUN - 8381042191



Achieve it

PERCENTAGE



Tax, 501

PERCENT

• The word percent is an abbreviation of the Latin phrase 'per centum' which means per hundred or hundredths.

30-517 2120x1 Per contum per hundred per poutine life



PERCENT AS A RATIO



 A percent can be expressed as a ratio with its second term 100 and first term equal to the given percent.

For example: 8% = 8/100 = 2/25 = 2:25

and



PERCENT IN DECIMAL FORM

To convert a given percent in decimal form, we express it as a fraction with denominator as 100 and then the fraction is written in decimal form.

For example, .65% = 65/100 = 0.62,

7.4%=7.4/100=0.074



1. Express each of the following as a fraction:

$$\frac{\sqrt{1348\%}}{\sqrt{1325}}$$



2. Express each of the following as a decimal:

(i) 6%

(ii) 72%

(iii) 125%

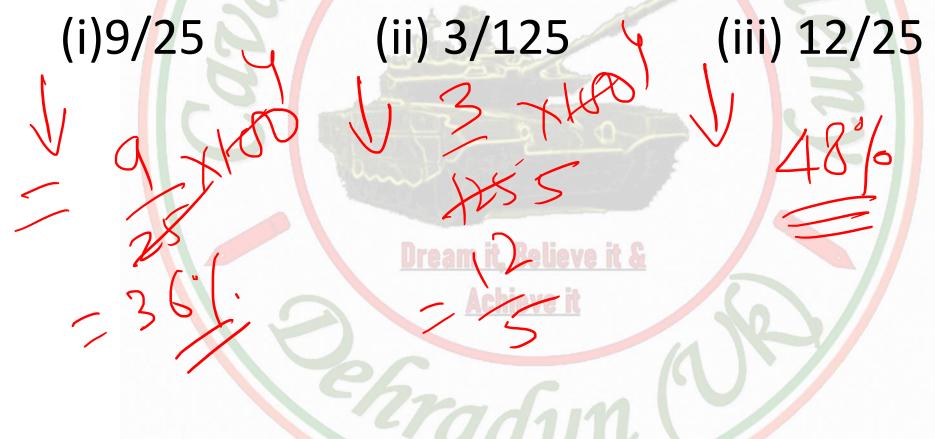
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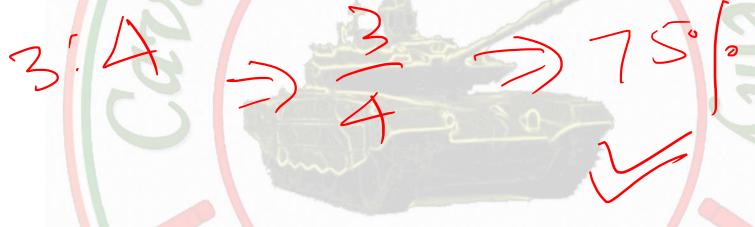


3. Express each of the following as a percentage:





4. Convert the ratio to percentage.

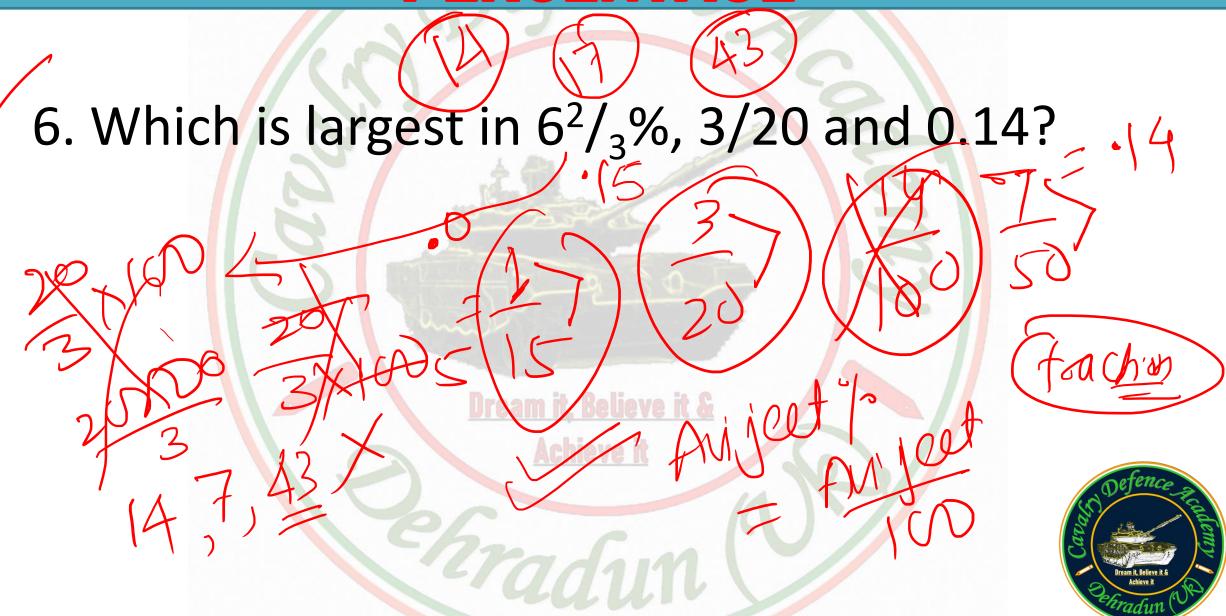


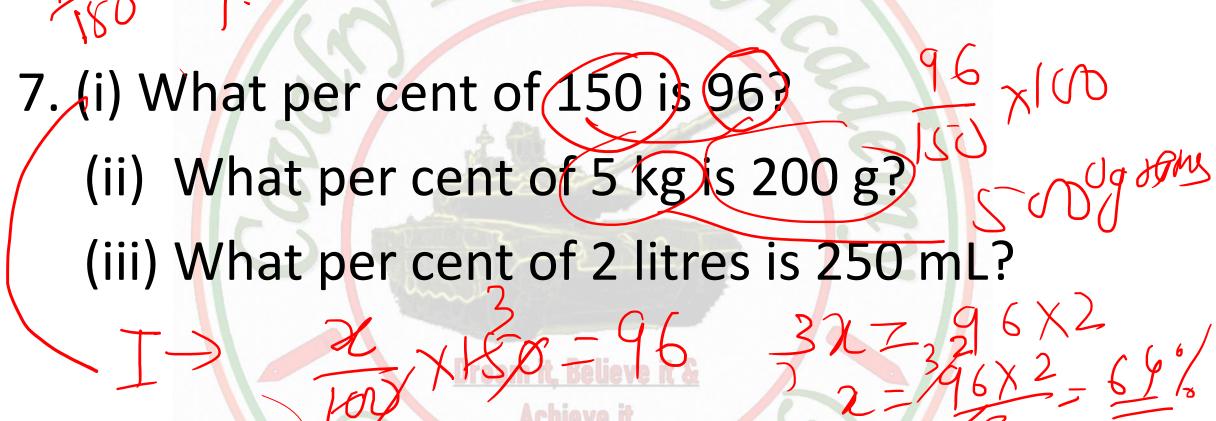


5.Express 125 % as a ratio.



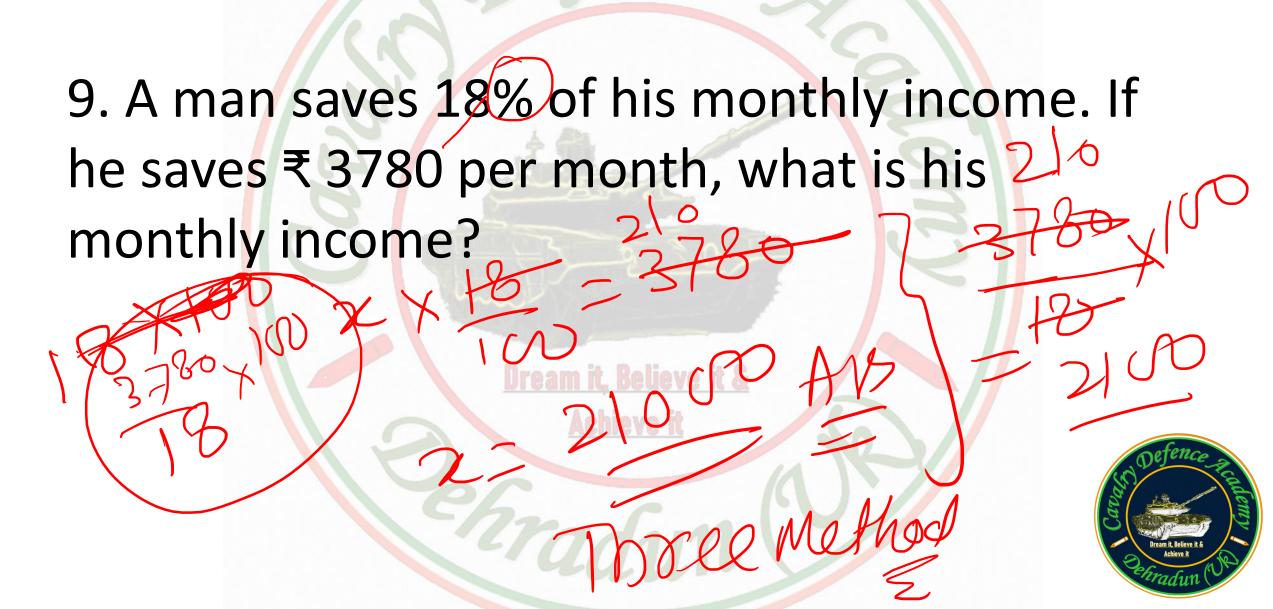






8. Find $4^{1}/_{2}$ of ₹ 3600.





10. A football team wins 7 games, which is 35 % of the total games played. How many games were played in all?

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11. If 16% of a number is 7, find the number.



12. A number 4 is wrongly is read as 4.48 find percentage error?



13. In a consignment of 500 articles 70 article are broken .find the percentage change?



14. In an exam passing percentage is 40 percent if a candidate got 65 marks and fails by 3 marks find maximum marks?



15. In an election between two candidate one secured 43% of total valid votes polled and valid and lost election by 4900 find the total number of votes polled?



16. 5% of a town died in bombardment 7% remaining died in panic if the population of town is 44175 find the original population?



- 17. In an exam, 30 percent of candidate failed in English 35% failed in mathematics 27% failed in both the subject. Find
 - Total percentage of failed
 - Percentage of total pass
 - Total number of candidate if 248 passed in both





18. If the price of rice is increased by 20% today how much percentage it should be decreased tomorrow?



19. A number decreased by 18% become 410 find the number?



20. Two numbers are 10% and 25% more than third number. What percent is first of second?



21. Amit was given an increment of 20% on his salary. If his new salary is ₹30600, what was his salary before the increment?



22. Sonal attended her school on 204 days in a full year. If her attendance is 85%, find the number of days on which the school was opened.



23. A's income is 20% less than that of B. By what per cent is B's income more than A's?



24. The price of petrol goes up by 10%. By how much per cent must a motorist reduce the consumption of petrol so that the expenditure on it remains unchanged?



25. The population of a town increases by 8% annually. If the present population is 54000. What was it a year ago?



26. the value of a machine depreciates every year by 20%. If the present value of the machine be ₹ 160000. What was its value last year?



27. An alloy contains 40% copper, 32% nickel and rest zinc. Find the mass of zinc in one kg of the alloy.



28. Balanced diet should contain 12% of proteins, 25% of fats and 63% of carbohydrates. If a child needs 2600 calories in his food daily, find in calories the amount of each of these in his daily food intake.



29. Gunpowder contains 75% nitret and 10% sulphur. Find the amount of gunpowder which carries 9 kg nitre. What amount of gunpowder would contain 2.5 kg sulphur?



30. Divide ₹ 7000 among A, B and C such that A gets 50% of what B gets and B gets 50% of what C gets.





31. Find the percentage of pure gold in 22-carat gold, if 24-carat gold is 100% pure.

Hint. 22 carat gold contains 22 parts out of 24 parts *Percentage of pure gold in it* =(22/4 X 100)%=91 2/3 %.



32. The salary of an officer is increased by 25%. By what per cent should the new salary be decreased to restore the original salary?

