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While solving these questions, it is crucial that you must follow the principle of VBODMAS. Unlike Simplification questions where we can find the exact output by simplifying the given expression, the approximate output is required in approximation questions. In these questions, there is no need to calculate the exact answer, however, it should be close to the exact answer. In this article, we are going to cover the key concepts of Simplification and Approximation along with the various types of questions, and tips and tricks. We have also added a few solved examples, which candidates will find beneficial in their exam preparation. Read the article thoroughly to clear all the doubts regarding the same. Also check Time and Work concepts here once you are through with Simplification and approximation concepts! What is Simplification and Approximation? Simplification means reducing the expression in simpler form using various operations. The operations used to simplify follows a fixed order known as VBODMAS. Where, V = Vinculum B = Bracket O = of D = Division M = Multiplication A = Addition S = Subtraction Approximation is simplifying the mathematical expression to its nearest value but not exactly correct. To find the approximate value, we round off the digits in the expression to the nearest value and simplify the expression using BODMAS. If you've learned Simplification and Approximation, you can move on to learn about Speed, Time and Distance concepts. Important Terms under Simplification and Approximation Some important terms related to the simplification and approximation are given below. Vinculum - Vinculum is a horizontal line drawn over a group of terms in a mathematical expression to indicate that they are to be operated on as a single entity by the preceding or following operator. Brackets - Brackets in simplification are of three types. Round brackets - denoted by the symbols ( ) Curly brackets - denoted by the symbols { } Box brackets - denoted by the symbols [ ] The order in which these brackets are operated is ( ), { } and [ ]. Of means multiplication but it is operated before division. The operation of adding or subtracting can be interchanged or can be performed simultaneously. Surds and Indices - A surd is an irrational number that can be expressed with roots, such as  $\sqrt{12}$  or  $\sqrt[3]{12}$ . An index is the power to which a number is raised and the plural of index is indices. For example,  $k^{12}$  has an index of 12. Important Rules of Simplification and Approximation Some important rules related to the simplification and approximation are given below. Product Rule  $(a^m) \times a^n = a^{m+n}$  Power Rules  $(a^m)^n = a^{m*n}$   $(ab)^n = a^n b^n$   $(\frac{a}{b})^n = \frac{a^n}{b^n}$   $(b^n)^m = b^{n*m}$  Exponent of Zero  $(a^0) = 1$  Quotient Rule  $(\frac{a^m}{a^n}) = a^{m-n}$  Negative Exponent  $(a^{-n}) = \frac{1}{a^n}$   $(\frac{1}{a^n}) = a^{-n}$   $(\frac{a}{b})^{-n} = \frac{b^n}{a^n}$   $(\frac{b}{a})^n = \frac{b^n}{a^n}$  Exponent of One  $(a^1) = a$  How to Solve Question Based on Simplification and Approximation - Know all Tips and Tricks Candidates can find different tips and tricks from below for solving the questions related to simplification and approximation. If all the fractions have a common denominator, then the integer part and the fraction part can be calculated separately. To find the approximate value of an expression containing decimals, just convert the decimals into integers and solve the expression. When you've finished with Simplification and Approximation, you can read about Ratio and Proportion concepts in depth here! Simplification and Approximation Questions for Competitive Exams Question 1: What approximate value should come in place of x in the following question?  $(\sqrt{48.99} \times \sqrt[3]{342.81}) + (6.99)^2 + (12.99)^2 = x$  Solution 1:  $= (\sqrt{48.99} \times \sqrt[3]{342.81}) + (6.99)^2 + (12.99)^2 = x$   $= (49 \times \sqrt[3]{343}) + (7)^2 + (13)^2 = x$   $= 49 \times 7 + 49 + 169 = x = 49 \times (1/7) + 169 = x = 7 + 169 = x$   $\therefore x = 176$ . Question 2:  $4$  of  $2 + 15 + 3 + 5 - 1$  Solution 2:  $\Rightarrow$  Step 1:  $8 + 15 + 3 + 5 - 1$   $\Rightarrow$  Step 2:  $8 + 5 + 5 - 1$  (In case of multiple division, we start division from left side)  $\Rightarrow$  Step 3:  $8 + 1 - 1 = 8$ . Question 3: Square of 35? Solution:  $\Rightarrow$  Step 1: Divide 35 into  $3/5$ .  $\Rightarrow$  Step 2: The next consecutive digit of 3 is 4. So Multiply 3 with 4, i.e. 12.  $\Rightarrow$  Step 3:  $12/5$  i.e. 25 Ans: 1225 Question 4: Square of number 98?  $\Rightarrow$  Solution 4:  $\Rightarrow$  Nearest best to 98 = 100. 98 is less than 100 by 2  $\Rightarrow$  Step 1: Subtract 98 by 2 = 96.  $\Rightarrow$  Step 2: Square of 2 = 04 (Number of digits should be equal to number of zeros in base) Ans: 9604. Question 5: Square of number 102?  $\Rightarrow$  Solution: Nearest best to 102 = 100. 102 is more than 100 by 2  $\Rightarrow$  Step 1: Add 102 by 2 = 102 + 2 = 104.  $\Rightarrow$  Step 2: Square of 2 = 04 (Number of digits should be equal to number of zeros in base) Ans: 10404. Question 6:  $64 \times 99$  Solution 6:  $\Rightarrow$  Step 1:  $64 - 1 = 63$   $\Rightarrow$  Step 2: Complement of 64 = 100 - 64 = 36 Ans: 6336. Question 7:  $678 \times 999 = ?$  Solution 7:  $\Rightarrow$  Step 1:  $678 - 1 = 677$   $\Rightarrow$  Step 2: Complement of 678 = 1000 - 678 = 322 Ans: 677322. Question 8:  $78 \times 999 = ?$  Solution 8: Take 78 as 078 and solve normally.  $\Rightarrow$  Step 1:  $078 - 1 = 077$   $\Rightarrow$  Step 2: Complement of 078 = 1000 - 078 = 922 Ans: 77922. Question 9: Square of number 988? Solution 9: Nearest best to 988 = 1000. 988 is less than 100 by 12  $\Rightarrow$  Step 1: Subtract 988 by 12 = 988 - 12 = 976.  $\Rightarrow$  Step 2: Square of 12 = 144 (Number of digits should be equal to number of zeros in base) Ans: 976144. Exams where Simplification and Approximation is Part of Syllabus Questions based on Simplification and Approximation come up often in various prestigious government exams some of them are as follows. We hope you found this article regarding Simplification and Approximation was informative and helpful, and please do not hesitate to contact us for any doubts or queries regarding the same. You can also download the Testbook App, which is absolutely free and start preparing for any government competitive examination by taking the mock tests before the examination to boost your preparation. Simplification and Approximation FAQs Ans.1 Details regarding the simplification and approximation can be found above in the article. Kindly go through the article for the same. Ans.2 Important rules related to the simplification and approximation can be found above in the article. Ans.3 Tips and tricks to solve the problems related to simplification and approximation are given above in the article. Kindly go through the article for the same. Ans.4 Various example questions along with their solutions are given above in the article. Kindly go through the article for the same. Ans.5 Simplification and Approximation based questions come in various government competitive examinations on a regular basis. The names of such examinations are given above in the article. Ratio and Proportion: Concepts, Solved Examples, & Preparation Strategies Profit and Loss: Concepts, Solved Examples, & Preparation Strategies Problem on Ages: Concepts, Solved Examples, & Preparation Strategies Pipe and Cistern: Concepts, Solved Examples, & Preparation Strategies Percentage: Formulas, Solved Examples, & Shortcuts error: Content is protected !! Simplification/Approximation Questions For IBPS PO Important Simplification Questions For Bank Exams. Simplification Questions For IBPS PO/Clerk Exams. Simplification/Approximation Questions For IBPS PO/Clerk Prelims 2018. Welcome to the www.letsstudytogether.co online Quant section. If you are preparing for IBPS PO/Clerk exam, you will come across a section on Quantitative Aptitude. Here we are providing you with SBI PO Quant quiz based on "Important Simplification Questions for IBPS PO/Clerk 2018" pattern for your daily practice. Simplification/Approximation Questions For IBPS PO/Clerk Prelims 2018 will help you learn concepts on important topics in Quant Section. This Quant subject quiz based on Simplification and Approximation for IBPS PO/Clerk 2018 is also important for other banking exams such as IBPS RRB Officer, IBPS RRB Office Assistant, IBPS SO, SBI SO and other competitive exams. You have already completed the quiz before. Hence you can not start it again. You must sign in or sign up to start the quiz. You have to finish following quiz, to start this quiz: maximum of 10 points Pos. Name Entered on Points Result Table is loading No data available simplification and approximation questions for bank po pdf download

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