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Arithmetic series worksheet with answers

In this arithmetic page series spreadsheet, you will see the practice questions of the arithmetic subject series. You can find the answer for each question on the page below. Solution Question (1) Find the sum of the first (i) 75 positive wholes (ii) 125 natural numbers Solution (2) Find the sum of the first 30 terms of an A.P whose term nth is $3 - 2n$ arithmetic Solution Series spreadsheet (3) Find the sum of each arithmetic series (i) $38 - 35 - 32 \dots\dots\dots 6 - 5 \frac{1}{4} - 4 \frac{1}{2} \dots\dots\dots 25$ Terms SolutionSolution (4) Find the sum of each arithmetic series described(i) a $5n^3$ and L 121 (ii) a $50n^2$ and d 4 Solution (5) Find the sum of the first 40 terms of the series $12 - 22 - 32 - 42 \dots\dots\dots$ Solution (6) In an arithmetic series, the sum of the first 11 terms is 44 and that of the next 11 mandates is 55. Find the arithmetic series. Solution (7) In an arithmetic sequence 60,56,52,48,..... from the first mandate, how many terms are needed for their sum to be 366? Solution (8) Find the sum of all natural 3-digit numbers, which are divisible by 9. Solution (9) Find the sum of the first 20 terms of the arithmetic series in which 3rd term is 7 and 7th term is 2 more than three times his 3rd term. Solution (10) Find the sum of all natural numbers between 300 and 500 that are divisible by 11. Solution (11) Solve $1 - 6 - 11 - 16 \dots\dots\dots - x - 148$ Solution (12) Find the sum of all natural numbers between 100 and 200 that are not divisible by 5. Solution (13) A construction company will be penalized each day for delays in the construction of the bridge. The penalty will be \$4,000 for the first day and will increase by \$10,000 for each next day. Based on its budget, the company can afford to pay a maximum of \$165,000 in penalty. Find the maximum number of days by which the completion of the work can be delayed Solution (14) The sum of \$1,000 is deposited each year at 8% of simple interest. Calculate interest at the end of each year. Do these interest amounts form an A.P.? If so, find the full interest at the end of 30 years. Solution (15) The sum of the first n terms of a certain series is given as $3n^2 - 2n$. Show that the series is an arithmetic series. Solution (16) If a clock rings once at 1'o, twice at 2 o and so on. How many times will it hit a day? Solution (17) Show that the sum of an arithmetic series of which the first term is a, the second term is b and the last term is equal to $\frac{a-c}{2}$ (b-a) Solution (18) If there are (2n-1) terms in an arithmetic series, then prove that the ratio of the sum of odd terms to the sum of the same terms is (n-1): n Solution (19) The ratio of the sums of the first m and the first of an arithmetic series is $m^2:n^2$ shows that the ratio of the terms m th and nth is $(2m-1) : (2n-1)$ Solution (20) A gardener plans to build a trapeze-shaped structure in his garden. The longer side of the trapezoid should start with a row of 97 bricks. Each row must be shrunk by 2 bricks at each end and should stop in the 25th row. How many bricks does he need to buy? Solution Answers : (i) 2850 (ii) 78751020(i) 260 (ii) -75(i) 1890 (ii) 50- 82039/11 - 40/11 - 41/11 - The sum of 8 or 23 terms of arithmetic sequence is $368,553507407227x - 36 \ 120001537200a - 1 \ d - 6156$ times thus proven Provenence1225 Bricks Sets and Functions Exercise 1.1 Exercise 1.2 Exercise 1.3 Exercise 1.4 MATRIX Exercise 4.1 Exercise 4.2 Exercise 4.2 Exercise 4.3 Geometry Exercise 6.6.6.6.1 Exercise 6.2 Exercise 6.3 Trigonometry Exercise 7.1 Exercise 7.2 Measurement Exercise 8.1 Exercise 8.2 Exercise 8.3 Exercise 8.3 Likelihood Exercise 12.1 Exercise 12.2 These are the questions in the spreadsheet of the arithmetic subject series.arithmetic If you have any comments on our mathematical content, please send us: v4formath@gmail.comWe always appreciate your comments. You can also visit the following web pages on different things in mathematics. MOTSHCF and LCM Word ProblemsAccumts on simple equations Word problems on linear equations Word problems on quadratic equationsAlgebra problems of wordsAccumts on trainsArea and problems of perimeter wordsAccut problems with direct variation and variation reverse Word problems over unit price problems Word problems over complementary word problems and complementary anglesDoble problems word problemsTrigonometry problems Of textPromitySword problems Name problems Value word problems Profit and loss of word problems Problems of words Problems Decimal Words Problems Decimal Word Problems on fractionsAccusms of words on fraactionsA mixed stage Stage equation problemsThe problems of wordsDegantse wordsTario and word problems of proportionSpities problems of wordsDesecession on sets and diagrams of vennPs Problems on problems agesPythagorean theorem word problemsPercent of a number word problemsWord problems on constant speed problems on the sum of the angles of a triangle is 180 degrees OTHER SUJETS Profit and Loss ShortcutsPercentage Shortcuts Table ShortcutsTime, Speed and distance shortcutsRatio and proportion shortcutsDomain and range of rational functionsDomain and range of rational functions with holesRemainder when 2 power 256 is divided by 17Reminder when 17 power 23 is divided by 16Sum of all three-digit numbers divisible by 6Sum of all three-digit numbers divisible by 7Sum of 8Sum of all three-digit numbers trained using 1, 3, 4Sum of the three four-digit numbers formed in non-zero numbersSum of the three-digit four-digit numbers formed using 0, 0, 2, 3Sum of the three four-digit numbers formed using 1, 2, 5, 6 copyright onlinemath4all.com SBI! Related Topics: More Lessons for Grade 9 spreadsheets Videos, solutions, examples, worksheets, games and activities to help Algebra II students learn more about arithmetic series. The following diagrams give two formulas for finding the arithmetic series. Scroll down for examples and solutions on how to use the formulas. Arithmetic Series We can use what we know about arithmetic sequences to understand arithmetic series. An arithmetic series is a series or summary that summarizes the terms of an arithmetic sequence. There are methods and formulas that we can use to find the value of an arithmetic series. Understanding arithmetic series can help to understand geometric series, and both concepts will be used when learning more complex computational topics. What is an arithmetic series? Set a series. Determine the partial sum of an arithmetic series. The summary or addition of the terms of an arithmetic sequence creates what is called a series. Examples: Determine the sum of the arithmetic series. $1, 3, 8, 13, \dots, 73$ 2. year $-4n - 3$. No. 20 Show step-by-step solutions Deriving the formula for the sum of an example-based arithmetic series. Example: A theatre has 50rows of seats. There are 18 seats in the first row, 20 seats in the second row, 22 in the third and so on. Show step-by-step solutions Find the sum of a finite arithmetic series This video shows two formulas to find the sum of a finite arithmetic series and makes two examples of finding some sums The Sun, Sn, from the first terms n of an arithmetic series with an 'a1' (n -1)d is Sn's (a1-year)/2 Example: Consider the arithmetic sequence 2,5,8,11,14,17, ... a) Find the sum of the first 10 terms. b) Find the sum of the series beginning with the 11th term and ending with the 28th term. View step-by-step solutions What is the difference between a sequence and a series? Gives the formula to find the sum of the first terms in a series, and relates the two formulas used. View step-by-step solutions How to find the sum of an arithmetic series? View step-by-step solutions Try the free Mathway calculator and problem solver below to practice various math topics. Try the examples given, or type your own problem and check your answer with the explanations step by step. We welcome your comments, comments and questions on this site or page. Please submit your comments or enquiries via our Comments page. An arithmetic series is essentially the sum terms contained in an arithmetic sequence. Ask high school students to solve this exclusive collection of printable worksheets on arithmetic series. Knowledge of the relevant formulas is a prerequisite for assessing the sum of an arithmetic series and determining the number of terms. Word problems included. Click on the free icons to taste our work. Assess - Type 1: a, d, n are given Observe each arithmetic sequence. Identify the first term - 'a', common common difference and number of terms - and substitute in the relevant formula for determining the sum of the arithmetic series. Download the Set (5 Spreadsheets) Assess - Mixed Review Assess your skills in evaluating arithmetic series with this batch of printable spreadsheets that is a mix of types 1, 2 and 3. You should be able to cleverly switch between the relevant formulas to find the sum of the series. Download the set (5 worksheets) Mixed exam test of a high school student in problem solving on arithmetic series provided in different formats. Validate your answers with the corresponding answer keys. Download the spreadsheets of the set (5 spreadsheets)