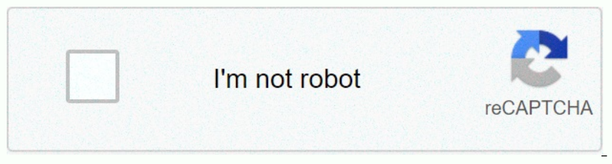

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Arithmetic series worksheet answers

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Questions Solution (1) Find the sum of the first (i) 75 positive integers (ii) 125 natural numbers solution (2) Find the sum of the first 30 terms of an A.P, whose nth Term 3 + 2 n arith is Metric Series Worksheet Solution (3) Find the sum of each arithmetic series (i) 38 + 35 + ... + 2(ii) 6 + 5 1/4 + 4 1/2 + ... 25 Terms SolutionSolution (4) Find the sum of each described arithmetic series(i) a = 5 n = 30 and L = 121(ii) a = 50 n = 25 and d = -4 solution (5) Find the sum of the first 40 terms of the series 12 - 22 + 32 - 42 + ... Solution (6) In an arithmetic series, the sum of the first 11 terms is 44 and the next 11 terms are 55. Find the arithmetic series. Solution (7) In an arithmetic sequence 60,56,52,48,..... from the first term of office, how many terms are needed for their total to be 368? Solution (8) Find the sum of all 3-digit natural numbers that are divisible by 9. Solution (9) Find the sum of the first 20 terms of the arithmetic series, in the 3rd term 7 and 7 term 2 is 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 + ... + 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 penalised every day of the delay in the construction of bridges. The penalty is USD 4000 for the first day and increases by USD 10000 for each following day. Based on its budget, the company can afford to pay a maximum of 165,000 DOLLARS in fines. Find the maximum number of days to delay the completion of the work solution (14) The sum of 1000 dollars is deposited each year at 8% simple interest. Calculate the interest at the end of each year. Do these interest amounts form an A.P?. If so, you will find the total interest at the end of 30 years. Solution (15) The sum of the first n terms of a given series is given as 3n2 - 2n. Show that the series is an arithmetic series. Solution (16) When a clock strikes once at 1 o'clock, twice at 2'o'clock and so on. How often will it strike during the day? Solution (17) Show that the sum of an arithmetic series whose first term is a,second term b and the last term c equals [(a+c) (b+c-2a)/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 straight terms is (n+1) : n solution (19) The ratio of the sums of the first m and first n terms of an arithmetic series is m2:n2 show that the ratio of m th and nth terms (2m-1) :(2n-1) solution (20) A gardener plans to construct a trapez-shaped structure in his garden. The longer side of the trapezoid must start with a series of 97 bricks. Each row must be reduced by 2 tiles at each end and the construction should remain in the 25th row. 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