2022: Q7(b) Find the missing number in the Series. 1) 4,16,36,64, _____ 62 82 102 2² 4² In the givin series, numbers are square. of even numbers. So, the missing number is loo, hence, the series would be 4,16,36,64,100,144. 30, 29, 27, _, 20, 15 ŭ) 30,29,27,24,20,15 -2 In the given Series, each number is Obtained by Subtracting the Consecutive natural number. So, the missing number is 24. Hence, the Series would be 30, 29, 27, 24, 20, 15, 1,7,15,25, ___, 5] (ii) 1 15, 25, 37, 51 +12 +14 +8 +10 In the given series, even numbers are added to the each number strang from even number 6. so the missing rumber is 37. Hence, the Series would be 1,7, 15,25,37,51,

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0,2,6,12,20,30,iv) 0,2,6,12,20,30, 42 +8 +10 +12 +4 In the given Series, each number is Obtained by adding consecutive even number. So, the missing number is 42. Hence, the series would be 0,2,6,12,20,30,42. 48,24,72,36,108, 48,24,72,36,108, $\frac{48}{24} = 2$ = 801 x 54 × In this series, Dividing the first term with second gives 2. diving third term with fourth also gives 2. Same sule will be applied for the fifth and Sixth term. So, the missing number is 54. Hence, The Series would be 48,24,72,36, 108;54.

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2023: Q6(6) Find the missing number in the series below. a) 1,8,4,27,9, ---? 1, 8, 4, 27, 9, 64 $4, 2^3, 2^2, 2^3, 2^2, 4^3$ In the given series, first number is 1 and others number are obtained by taking (libe and then taking guare of the same number in according order of natural numbers. So, the missing number is 64. Hence, the series would be 1,8,4,27,9,64. b) 3,6,8,16,18,_? 3,6,8,16,18, 36. x2 -2 x2 -2 x2 In the given Series, the consecutive numbers ave obtain by multiplication with 2. and other number Bubbraction of 2 is obtain by subbraching with 2. 30, The mussing number is 36. Hence, the series would be 3,6,8,16,18,36.

c) 2, 8, 512, --- P 2,8,512,39,845,888 $2^3 = 8$ $8^3 = 512$ 5123 = 39,845,868 134,217,728 In the given series, each number is Cube of the first number. So the next number is 39,845,888. Hence, the series would be 2,8,512, 39845888. 134,217,728 81,9,64,8, ____,12 d) 81,9,64,8,144,12. 181 = 9 164 = 8 1144 = 12 . In the given series each second number is Obtain. by taking root of the first number. So the to square noot of 12 is 144. Hence, the missing number is 144.

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