

Algorithms For Perfect Squares Work Sheet: 08-ALG-05-WS



I. Algorithm to check if a number is a Perfect Square: Write the steps from the algorithm for determining if the number 289 is a perfect square.

Hint: Follow the steps from example in Slide 6. Algorithm:

Name: Class: Div: Roll. No:



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II. We saw that any Perfect Square can be written as a sum of consecutive odd numbers starting from 1. Write an algorithm using the above information, to determine whether a given number X is a Perfect Square.

Hint: Start adding odd numbers 1, 3, 5, 7, 9... and so on. Compare with X at each step.

Algorithm:

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- III. Determine if the below numbers are Perfect Squares, only by examining the digits. You can choose: YES, NO or MAYBE.
 - a. 112376545
 - b. 10000000
 - c. 987654325
 - d. 765346787
 - e. 123467819

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