# RYAN INTERNATIONAL SCHOOL, NOIDA EXTENSION WORKSHEET N0.-41

**(AY-2023-24) CLASS -VIII**

# Date: 1.09.23 Subject: Mathematics

**Name: Class: Roll No**

**Squares and Square roots**

**Case Study -11**

**A king wanted to reward his advisor, a Wise man of the kingdom. So, he asked the Wise man to name his own reward. The Wise man thanked the king, but said that he would ask only for some gold coins each day for a month. The coins were to be counted out in a pattern of one coin for the first day, 3 coins for the second day, 5 coins for the third day and so on for 30 days.**

1. **The sum of first ‘n’ odd natural numbers is \_\_\_\_\_\_\_\_\_\_\_.**
2. **The square of odd numbers are always\_\_\_\_\_\_\_\_.**
3. **Without making calculations, find how many coins will the advisor get in that month?**

**Case Study -12**

**A smelter has two square sheets of metal with perimeters equal to 40cm and 96cm, respectively. But he wants one large square sheet to make lid of a larger box. For this purpose, he melts and combines the two sheets to form one bigger squared sheet**

1. **The numbers ending in 2, 3, 7 or 8 are \_\_\_\_\_\_\_\_ a perfect square.**
2. **The number of zero at the end of a perfect square is always \_\_\_\_\_\_\_\_\_.**
3. **Find the area and perimeter of the new sheet formed.**

RIS/NE/23-24/CL-8/ Mathematics/WS NO-41