VIDYA SHREE ACADEMY
SR. SEC. SCHOOL

VSA — A Real English Medium School

Little Steps' — Pre Primary wing of VSA

An English Medium Co.Ed. School | Science & Commerce

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Subject: Maths   Class: 8   Topic: Exponents and Powers

Watch video #8 and solve the following exercise:

EXERCISE 3.1

Use **Cordova Smart Class Software** on the **smart board** in class to do Exercise.

1. Show that the following numbers are not perfect squares :
   (i) 54473   (ii) 4058   (iii) 24257   (iv) 3332

2. What will be the units digits of the squares of the following numbers?
   (i) 1234   (ii) 4329   (iii) 8723

3. Which of the following end with digit 1?
   (i) $(37)^2$ (ii) $(321)^2$ (iii) $(549)^2$ (iv) $(427)^2$

4. Determine whether the squares of the following numbers are odd or even :
   (i) 2826   (ii) 7779   (iii) 30018   (iv) 8204

5. How many natural numbers lie between the squares of the following numbers?
   (i) 25 and 26   (ii) 19 and 20

6. Find the squares of the following numbers without actual multiplication.
   (i) 65   (ii) 95   (iii) 205

EXERCISE 3.2

Use **Cordova Smart Class Software** on the **smart board** in class to do Exercise.

1. Write a Pythagorean triplet whose smallest member is 8.

2. Find a Pythagorean triplet whose one member is 12.

3. One member of a Pythagorean triplet is 18. Find other two members of the triplet.

4. Is 10, 24 and 26 a Pythagorean triplet?