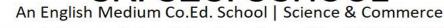


# DYA SHREE ACADEI —— SR. SEC. SCHOOL ——





W: www.vsajaipur.com | E: vsajaipur@gmail.com M.: +91 9460356652, 8058999828 Add.: 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015





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?
- (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
- 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?