

Subject: Maths

Class: 8

Topic: Exponents and Powers

Watch video #10 and solve the following exercise:

### EXERCISE 3.5

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

Find the square root of the following by division method :

- |          |           |           |           |
|----------|-----------|-----------|-----------|
| 1. 9801  | 2. 54756  | 3. 8649   | 4. 4489   |
| 5. 3249  | 6. 10201  | 7. 12100  | 8. 27225  |
| 9. 20449 | 10. 29241 | 11. 26569 | 12. 57121 |

### EXERCISE 3.6

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

- Without calculating the square root, find the number of digits in the square root of the following numbers :  
(i) 36864      (ii) 28900      (iii) 106276      (iv) 4507129  
(v) 32400      (vi) 5625      (vii) 24336
- Find the greatest 5-digit number which is a perfect square.
- Find the least number of four digits which is a perfect square.

- Find the least number which must be subtracted from each of the following numbers to make it a perfect square :

(i) 5045      (ii) 18265      (iii) 194491      (iv) 26535

- Find the least number which must be added to each of the following numbers to make it a perfect square.

(i) 3720      (ii) 115580      (iii) 4931