

Subject: Maths

Class: 8

Topic: Exponents and Powers

Watch video #12 and solve the following exercise:

EXERCISE 13.1

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

1. Construct a quadrilateral ABCD in which $AB = 4$ cm, $BC = 6$ cm, $CD = 5$ cm, $AD = 5.5$ cm and $AC = 7$ cm.
2. Construct a quadrilateral ABCD such that $AB = 3$ cm, $BC = 3.8$ cm, $CD = 4.1$ cm and $AC = 4.8$ cm and $BD = 5.2$ cm.
3. Construct a quadrilateral PQRS from the following data :
 $RS = 5$ cm, $PR = PS = 6$ cm, $QR = 7.5$ cm and $QS = 10$ cm. Measure its side PQ.
4. Construct a quadrilateral BEST in which $ES = 7.5$ cm, $BS = 6$ cm, $BT = 6$ cm, $ST = 5$ cm and $ET = 10$ cm.
5. Construct a quadrilateral ABCD in which $BC = 4$ cm, $CA = 5.6$ cm, $AD = 4.5$ cm, $CD = 5$ cm and $BD = 6.5$ cm.
6. Construct a quadrilateral ABCD in which $AB = 3.5$ cm, $BC = 4$ cm, $CD = 4.5$ cm, $AC = 5$ cm and $BD = 5.5$ cm.

EXERCISE 13.2

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

1. Construct a quadrilateral ABCD, given that $\angle A = 60^\circ$, $AB = 2.8$ cm, $BC = 3$ cm, $CD = 2.5$ cm and $DA = 3.2$ cm.
2. Construct a quadrilateral ABCD, such that $AB = 5.5$ cm, $BC = 4.2$ cm, $CD = 4.5$ cm, $AD = 3.5$ cm and $\angle A = 75^\circ$.
3. Construct a quadrilateral ABCD, in which $AB = 3.5$ cm, $BC = 3.4$ cm, $CD = 4.7$ cm, $AD = 5.2$ cm and $\angle B = 80^\circ$.