CLASS 8

## DIRECT AND INVERSE PROPORTIONS

## **INVERSE VARIATION**

## EXERCISE

- Q.1 A family has enough rice for 8 members for30 days. Find the number of days the rice will last if the members increased to 10.
- **Q.2** 125 people finish a piece of work in 120 days. Find the number of people required to finish the same work in 100 days.
- **Q.3** A restaurant has food stock to supply food for 900 people for 40 days. If only 600 people visited the restaurant, how long will the food last ?
- **Q.4** If apples are sold at j = 5 each, Sushma can buy 2 dozen apples with the money in her purse. How much will she buy if the cost is increased by j = 1 each?
- **Q.5** 8 horses consume a certain quantity of grains in 50 days. How long will the grains last if the number of horses is increased to 20 ?
- **Q.6** A school has enough food for 400 children for 12 days. How long will the food last for 80 more children ?

## **ANSWER KEY**

- **1.** 24 days
- **2.** 150 people
- **3.** 60 days
- **4.** 20 apples
- 5. 20 days
- **6.** 10 days