



## 7. CASE STUDY

A teacher shows four articles of different lengths in a classroom of standard VIII. The difficulty is that the lengths are in exponential form. The lengths of the articles are as follows:

a)  $3 \times 16^{3/4}$

b)  $2 \times 27^{2/3}$

c)  $4^0 \times 16^{3/4}$

d)  $2 \times 9^{3/2} \times 3^{-1}$

Q.1 What is the length of the first article?

Q.2 What is the sum of lengths of all articles?

Q.3 What is the product of the lengths of first and third articles?

Q.4 What is the ratio of the length of first and fourth articles?