

BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA

CLASS: VIII

SUBJECT: MATHEMATICS

TOPIC: INTRODUCTION TO GRAPHS & EXPONENTS AND POWERS

ANSWER KEY OF ASSIGNMENT

Sol. 7 CASE STUDY

Length of all the articles:

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

$3 \times 2^{4 \times 3/4}$

3×2^3

$3 \times 2 \times 2 \times 2 = 24$

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

$1 \times 2^{4 \times 3/4}$

1×2^3

$1 \times 2 \times 2 \times 2 = 8$

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

$2 \times 3^{3 \times 2/3}$

2×3^2

$2 \times 3 \times 3 = 18$

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

$2 \times 3^{2 \times 3/2} \times 3^{-1}$

$2 \times 3^3 \times 3^{-1}$

$2 \times 3^{3-1}$

2×3^2

$2 \times 3 \times 3 = 18$

i) 24

ii) 68

iii) 192

iv) 4 : 3