



INDIAN SCHOOL AL WADI AL KABIR

Class : IX, Mathematics

BRIDGE COURSE WORKSHEET-1

TOPIC: ARITHMETIC, SQUARES AND CUBES, BODMAS RULE

Roll No.:

Date:

Name:

Section:

Q.1.

Express the rational number as decimals:

a) $\frac{1}{2}$

b) $\frac{3}{4}$

Q.2.

c) $\frac{1}{8}$

d) $\frac{7}{5}$

Q.3.

e) $\frac{1}{3}$

f) $\frac{9}{11}$

Q.4.

Area of a square is 9801 m^2 . Find the side of the given square.

Q.5.

Find $(5^0 + 3^0) \times (2^0 + 4^0)$

Q.6.

Find the value of $\sqrt{31.36} - \sqrt{23.04}$

Q.7.

Simplify the following by using laws of exponents: $\frac{(5^{-1})^2 \times 5^4}{3^{-3} \times 25}$

Q.8.	Find the square root by division method: 8836
Q.9.	In right angled triangle ABC, $\angle B = 90^\circ$. If AC= 17 cm and BC=8 cm find AB.
Q.10.	The value of k such that $9^{2k} \div 9^3 = 9^7$
Q.11.	Find the value of $\frac{\sqrt[3]{27} \times \sqrt[3]{216}}{\sqrt[3]{729}}$
Q.12.	Find the length of each side of a cube if its volume is 512cm^3 .
Q.14.	Find the value of $[(10^3)^5 \times 10^7] \div [10^{11} \times 10^6 \times 10^3]$
Q.15.	Find the value of x if $2^x = 128$
Q.17.	$3.45 \div 0.08$ 2.53×0.154
Q.18.	Simplify : $\frac{2^3 \times 3^5 \times 4}{3^3 \times 16}$