

Indian School

Class 8

Subject : Mathematics

Worksheet

Topic : Cubes and Cube roots

Q.1 Find the cubes of the following:

(a) 12

(b) -6

Q.2 Is 135 a perfect cube?

Q.3 Find the cube roots of the following:

(a) 1728

(b) 3375

Q.4 Find the smallest number by which 1323 may be multiplied so that the product is a perfect cube.

Q.5 What is the smallest number by which 2916 should be divided so that the quotient is a perfect cube?

Q.6 Check whether 1728 is a perfect cube by using prime factorisation.

Q.7 Using prime factorisation, find the cube root of 5832.

Topic : Practical Geometry

Q.1 Construct a rectangle whose one side is 3 cm and a diagonal is equal to 5 cm.

Q.2 Construct a square of side 4 cm.

Q.3 Construct a rhombus CLUE in which CL = 7.5 cm and LE = 6 cm.

Q.4 Construct a quadrilateral BEAR in which BE = 6 cm, EA = 7 cm, RB = RE = 5 cm and BA = 9 cm. Measure its fourth side.

Q.5 Construct a parallelogram POUR in which PO = 5.5 cm, OU = 7.2 cm and $\angle O = 70^\circ$.

Q.6 Construct a parallelogram HOME with HO = 6 cm, HE = 4 cm and OE = 3 cm.

Q.7 Construct a square in which each diagonal is 5 cm long.