

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date:

Name:

ID No.....

Match the Columns

1. Match the following columns for the factors of the given expression by placing the correct letter in square box.

Column I	Column II
(i) $x^2 - \frac{y^2}{100}$	(a) $(a + \sqrt{2}b)(a^2 - \sqrt{2}ab + 2b^2)$
(ii) $a^3 - 2\sqrt{2}b^3$	(b) $(3x + y + z)(9x^2 + y^2 + z^2 - 3xy - yz - 3xz)$
(iii) $a^3 + 2\sqrt{2}b^3$	(c) $(a - \sqrt{2}b)(a^2 + \sqrt{2}ab + 2b^2)$
(iv) $27x^3 + y^3 + z^3 - 9xyz$	(d) $\left(x + \frac{y}{10}\right)\left(x - \frac{y}{10}\right)$

(i) \longrightarrow

(ii) \longrightarrow

(iii) \longrightarrow

(iv) \longrightarrow