

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date: .....

Name: .....

ID No.....

1. Write the correct answer for each of the following:

(i.) The decimal expansion of  $\sqrt{3}$  is

(a) 1.732

(b) a finite decimal

(c) non-terminating recurring

(d) non-terminating non-recurring

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(ii.) Which of the following is rational?

(a)  $\frac{\sqrt{45}}{3}$

(b)  $\sqrt{21}$

(c) 10.124124

(d) 2.020020002.....

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(iii.) Value of  $\sqrt[4]{(25)^{-2}}$  is

(a)  $\frac{1}{25}$

(b) 5

(c)  $\frac{1}{5}$

(d) 25

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(iv.) The value of 1.999.... in the form  $\frac{p}{q}$ , where p and q are integers and  $q \neq 0$ , is

(a)  $\frac{19}{10}$

(b)  $\frac{1999}{1000}$

(c) 2

(d)  $\frac{1}{9}$

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(v.) The number obtained on rationalising  $\frac{1}{\sqrt{5}-2}$  is

(a)  $\sqrt{5}-2$

(b)  $\sqrt{5}+\sqrt{2}$

(c)  $\sqrt{5}+2$

(d)  $\sqrt{5}-\sqrt{2}$

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