

Class 9 Mathematics - The World of Numbers

Name: _____

Date: _____

Advanced Worksheet 2

Questions

1. Explain why $0.333\dots$ is a rational number.
2. Convert $0.333\dots$ into a fraction.
3. Is $0.1010010001\dots$ terminating?
4. Is $0.1010010001\dots$ repeating?
5. Is $0.1010010001\dots$ rational or irrational?
6. State one difference between rational and irrational numbers.

Answer Key

1. It is a repeating decimal.
2. $\frac{1}{3}$
3. No
4. No
5. Irrational
6. Rational numbers can be written as $\frac{p}{q}$; irrational numbers cannot.