

CLASS 9

MATHEMATICS

REVISION NOTES

Class 9 Mathematics Chapter 3 The World of Numbers – Revision Notes

Quick revision notes for Class 9 Maths Chapter 3 (The World of Numbers). These Class 9 Mathematics Chapter 3 notes are ideal for quick revision just before exams.

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Number Types

Rational: p/q form, terminating or repeating decimal.

Irrational: non-terminating, non-repeating decimal ($\sqrt{2}$, π).

Real numbers = rational + irrational.

Operations

rational $\pm \times \div$ rational = rational.

rational $\pm$ irrational = irrational.

irrational $\times$ irrational = rational OR irrational (depends).

Number Line Representation

$\sqrt{2}$ via Pythagoras construction (legs=1,1 $\rightarrow$ hypotenuse= $\sqrt{2}$).

Laws of Exponents

$a^m \times a^n = a^{m+n}$; $a^m / a^n = a^{m-n}$; $(a^m)^n = a^{mn}$; $a^m b^m = (ab)^m$.

Rationalisation

Convert irrational denominator to rational by multiplying by suitable term.

One-Line Summary

Real numbers combine rationals (p/q form) and irrationals (non-terminating, non-repeating decimals), both representable on the number line, governed by exponent laws and rationalisation techniques for simplification.

Class 9 Mathematics Chapter 3 – Solutions and Important Questions

Need full answers or more practice? See the [Class 9 Mathematics Chapter 3 Solutions](#) and [Class 9 Mathematics Chapter 3 Extra Questions](#).

See also: [Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#)

Practice more: [Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#)

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