Class 7

Important Formulas

Chapter 13 – Exponents and Powers

1. If a is a non-zero rational number and n is a natural number, then the product $\underset{(n\ times)}{a \times a \times a \times ...... \times a}$ is denoted by a^n and is read as 'a raised to the power n'. Rational number 'a' is called the base and natural number n is known as the exponent. Also, a^n is known as the exponential form $\underset{(n\ times)}{a \times a \times a \times ...... \times a}$

2. For any non-zero rational number, we have $a^0 = 1 \ and \ a^1 = 1$.

3. If a and b are non-zero rational numbers and m and n are natural numbers, then following are the laws of exponents:

(i) $a^m \times a^n = a^{m+n}$

(ii) $\dfrac{a^m}{a^n} = a^{m-n}, (m > n)$

(iii) $\left(a^m\right)^n = a^{mn} = \left(a^n\right)^m$

(iv) $\left(a \times b\right)^n = a^n b^n$

(v) $\left(\dfrac{a}{b}\right)^n = \dfrac{a^n}{b^n}$

NCERT Solutions For Class 7 Maths

Class 7 Maths Chapter 1 Integers

- Class 7 Integers Ex 1.1
- Class 7 Integers Ex 1.2
- Integers Class 7 Exercise 1.3
- Integers Class 7 Exercise 1.4

Class 7 Maths Chapter 2 Fractions and Decimals

- Fractions and Decimals Class 7 Ex 2.1
- Fractions and Decimals Class 7 Ex 2.2
- Fractions and Decimals Class 7 Ex 2.3
- Fractions and Decimals Class 7 Ex 2.4
- Fractions and Decimals Class 7 Exercise 2.5
- Fractions and Decimals Class 7 Exercise 2.6
- Fractions and Decimals Class 7 Exercise 2.7

Class 7 Maths Chapter 3 Data Handling

- Data Handling Class 7 Ex 3.1
- Data Handling Class 7 Ex 3.2
- Data Handling Class 7 Exercise 3.3
- Data Handling Class 7 Exercise 3.4

Class 7 Maths Chapter 4 Simple Equations

- Simple Equations Class 7 Ex 4.1
- Simple Equations Class 7 Ex 4.2
- Simple Equations Class 7 Exercise 4.3
- Simple Equations Class 7 Exercise 4.4

Class 7 Maths Chapter 5 Lines and Angles

- Lines and Angles Class 7 Ex 5.1
- Lines and Angles Class 7 Exercise 5.2

Class 7 Maths Chapter 6 The Triangle and Its Properties

- The Triangle and Its Properties Class 7 Ex 6.1
- The Triangle and Its Properties Class 7 Ex 6.2
- The Triangle and Its Properties Class 7 Exercise 6.3
- The Triangle and Its Properties Class 7 Exercise 6.4
- The Triangle and Its Properties Class 7 Exercise 6.5

Class 7 Maths Chapter 7 Congruence of Triangles

- Congruence of Triangles Class 7 Ex 7.1

- Congruence of Triangles Class 7 Ex 7.2

Class 7 Maths Chapter 8 Comparing Quantities

- Comparing Quantities Class 7 Ex 8.1
- Comparing Quantities Class 7 Ex 8.2
- Comparing Quantities Class 7 Exercise 8.3

Class 7 Maths Chapter 9 Rational Numbers

- Rational Numbers Class 7 Ex 9.1
- Rational Numbers Class 7 Ex 9.2

Class 7 Maths Chapter 10 Practical Geometry

- Practical Geometry Class 7 Ex 10.1
- Practical Geometry Class 7 Ex 10.2
- Practical Geometry Class 7 Ex 10.3
- Practical Geometry Class 7 Exercise 10.4
- Practical Geometry Class 7 Exercise 10.5

Class 7 Maths Chapter 11 Perimeter and Area

- Perimeter and Area Class 7 Ex 11.1
- Perimeter and Area Class 7 Ex 11.2
- Perimeter and Area Class 7 Exercise 11.3
- Perimeter and Area Class 7 Exercise 11.4

Class 7 Maths Chapter 12 Algebraic Expressions

- Algebraic Expressions Class 7 Ex 12.1
- Algebraic Expressions Class 7 Ex 12.2
- Algebraic Expressions Class 7 Exercise 12.3
- Algebraic Expressions Class 7 Exercise 12.4

Class 7 Maths Chapter 13 Exponents and Powers

- Exponents and Powers Class 7 Ex 13.1
- Exponents and Powers Class 7 Ex 13.2
- Exponents and Powers Class 7 Exercise 13.3

Class 7 Maths Chapter 14 Symmetry

- Symmetry Class 7 Ex 14.1
- Symmetry Class 7 Ex 14.2
- Class 7 Symmetry Exercise 14.3

Class 7 Maths Chapter 15 Visualising Solid Shapes

- Visualising Solid Shapes Class 7 Ex 15.1
- Visualising Solid Shapes Class 7 Ex 15.2
- Visualising Solid Shapes Class 7 Exercise 15.3
- Visualising Solid Shapes Class 7 Exercise 15.4

RD Sharma Class 7 Solutions

Chapter 1: Integers
Chapter 2: Fractions
Chapter 3: Decimals
Chapter 4: Rational Numbers
Chapter 5: Operations on Rational Numbers
Chapter 6: Exponents
Chapter 7: Algebraic Expressions
Chapter 8: Linear Equations in One Variable
Chapter 9: Ration And Proportion
Chapter 10: Unitary Method
Chapter 11: Percentage
Chapter 12: Profit and Loss
Chapter 13: Simple Interest
Chapter 14: Lines and Angles
Chapter 15: Properties of Triangles
Chapter 16: Congruence
Chapter 17: Constructions
Chapter 18: Symmetry
Chapter 19: Visualising Solid Shapes
Chapter 20: Mensuration I
Chapter 21: Mensuration II
Chapter 22: Data Handling I (Collection and organisation of Data)
Chapter 23: Data Handling II (Central Values)
Chapter 24: Data Handling III (Construction of Bar Graphs)
Chapter 25: Data Handling IV (Probability)