# DELHI PUBLIC SCHOOL,JAMMU 

HALFYEARLY REVISION SHEET
SESSION: 2019-20
Class: VIII
Subject:Maths

TOPICS:- CH- 1 Rational Numbers
CH-3 Understanding Quadilateral
CH-6 Square \& Square Roots
CH-9 Algebraic Expression \& Identities
CH-16 Playing With Numbers

CH-2 Linear Equations
CH-4 Practical Geometry
CH-7 Cubes \& Cubes Roots
CH-12 Exponents \& Powers

## Section-A

## Multiple Choice Questions

1) Multiplicative Inverse of $\frac{5}{12}$ is:
a) $\frac{-5}{12}$
b) $\frac{12}{5}$
c) $\frac{5}{12}$
d) 1
2) If $2 x-7=0$, then value of $x$ is:
a) ) $\frac{-7}{2}$
b) $\frac{2}{7}$
c) $\frac{-2}{7}$
d) $\frac{7}{2}$
3)The reciprocal of 0 is
a) 1
b) -1
c) 0
d) Not defined
3) The digit in the tens place of two digit number is 3 more than the digit in the unit place .Let the digit at ones place be $b$. Then the number is:
a) $11 \mathrm{~b}+30$
b) $10 \mathrm{~b}+30$
c) $11 \mathrm{~b}+3$
d) $10 \mathrm{~b}+3$
4) A linear Equation in 1 Variable has:
a) Onle one solution
b) Two solutions
c)No solutions
d) Infinite solution
5) Which of the following is a linear equation in one variable?
a) $X^{2}+1=0$
b) $\left.y+y^{2} c\right) x^{3}-1=0$
d) $y+2=0$
6) If the angles are in the ratio $1: 2: 3: 4$, the smallest angle is:
a) 72
b) 144 c) 36
d) 18
7) The number of sides of a regular polygon , where each exterior angle has a measure of 45 is:
a) 8
b) 10
c) 4
d) 6
8) The sum of all exterior angles of polygon is:
a) 180
b) 360 c) 540
d) 720
9) how many natural numbers lie between $5^{2}+6^{2}$
a) 9
b) 10
c) 11
d) 12
10) The next two numbers in the Number pattern $1,4,9,6,16,25$ $\qquad$ are:
a) 35,48
b) 36,49
c) 36,48
d) 35,40
11) Which of the following is not a perfect cube
a) 216
b) 567
c) 125
d) 343
12) The ones digit in cube of 23 is:
a) 6
b) 7
c) 3
d) 9
13) $\sqrt[3]{1000}$ is equal to
a) 10
b) 100
c) 1
d) None of these
14) The product of monomial and binomial is:
a) Monomial
b) Bionomial
c) Trinomial
d) None
15) Common factors of $17 a b c, 34 a b^{2}, 51 a^{2} b^{2}$ is:
a) 17 abc
b) 17 ab
c) 17 ac
d) $17 a^{2} b^{2} c$

## Section-B

1) Represent the following on Number Line
b) $\frac{-5}{7}$
c) $\frac{2}{11}$
i) $\frac{8}{3}$
2) Three Consecutive Integers add up to 63. Find the Numbers.
3) Solve $\frac{7 y+4}{y+2}=\frac{-4}{3}$
4) The measure of two adjacent angles of a parallelogram are in ration $3: 2$. Find the measure of each of the angles of the parallelogram.
5) Construct a rhombus BEND having $\mathrm{BN}=5.6 \mathrm{~cm} \mathrm{DE}=6.5 \mathrm{~cm}$
6) In a right triangle $A B C, \angle B=90$. If $A c=3 \mathrm{~cm} B C=5 \mathrm{~cm}$. Find $A B$.
7) Find the cube root of 15625 by prime factorisation method.
8) Simplify $(4 p+5 q)^{2}+(4 p-5 q)^{2}$
9) Find the value of $x$ if

$$
(2 / 3)^{5 x} \times(2 / 3)^{5 x}=(2 / 3)^{50}
$$

10) Simplify (a+b-c) (a-b+c)

## Section-C

1)Sum of two Rational Numbers is $\frac{-5}{3}$. If one of the rational numbers is $\frac{2}{3}$. Find the other.
2) Verify $\mathrm{ax}(\mathrm{b}-\mathrm{c})=\mathrm{axb}-\mathrm{axc} \quad, \mathrm{a}=\frac{1}{2} \quad \mathrm{~b}=\frac{4}{5} \quad \mathrm{c}=\frac{6}{7}$
3) Lakshmi is a cashier in a bank. She has a currency notes of denominations $\square 100, \square 50$ and $\square 10$ respectively. The ration of number of these notes is 2:3:5 .The total cash with Lakshmi is $\square 800000$.How many notes of each Denomination does she have?
4) Find the value of $x$ and $y$


$$
\text { IF PS }=3 x+5, O P=x+15, P S=y+7, P W=3 y-15
$$

5) Construct a Quadrilateral TRUE , $\mathrm{TR}=3.5 \mathrm{~cm}, \mathrm{RU}=3 \mathrm{~cm}, \mathrm{UE}=4 \mathrm{~cm} \quad \angle \mathrm{R}=75^{\circ}, \angle \mathrm{U}=120^{\circ}$
6) Find greatest number of 6 digits which is a perfect square.
7)Find the Square root of 15 upto 3 decimal places.
7) Subtract

$$
2 a b^{2} c^{2}+4 a^{2} b^{2} c-5 a^{2} b c^{2} \text { from }-10 a^{2} b^{2} c+4 a b^{2} c^{2}+2 a^{2} b c^{2}
$$

9) Simplify

$$
\frac{6^{5}-6^{7}}{6^{3}}
$$

10)Three numbers are in ration 1:2:3 and the sum of their cubes is 4500 . Find the numbers.

## Section-D

1) Find the sum of additive inverse of $(1 / 2 x-3 / 4)$ and multiplicative inverse of $(-4 x 8 / 3)$
2) Find a number whose one fifth part increases by 30 is equal to its one fourth part decreased by 30 .
3) Find Number of sides of a regular polygon whose exterior angle is of measure $120^{\circ}$
4) Find the value of X if RISK and CLUE are parallelogram

5) Find the length of side of a square whose area is $1024 \mathrm{~cm}^{2}$.
6) Find the cube root of the following by using ones and tens digit.
i) 17576
ii) 704969
7) Show that
i) $(3 x+7)^{2}-84 x=(3 x-7)^{2}$
ii) $(a-b)(a+b)+(b-c)(b+c)+(c-a)(c+a)=0$
8) Write a Pythagorean triplet whose one member is
a) 6
b) 9
