DELHI PUBLIC SCHOOL,JAMMU HALFYEARLY REVISION SHEET SESSION: 2019-20

Class: VIII Subject:Maths

TOPICS:-	CH-1 Rational Numbers	CH-2 Linear Equations
	CH-3 Understanding Quadilateral	CH-4 Practical Geometry
	CH-6 Square & Square Roots	CH-7 Cubes & Cubes Roots
	CH-9 Algebraic Expression & Identities	CH-12 Exponents & Powers
	CH-16 Playing With Numbers	

Section-A

Multiple Choice Questions

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1) Multiplicative Inverse of $\frac{5}{12}$ is:					
b) $\frac{12}{5}$	c) $\frac{5}{12}$	d) 1			
e of x is:					
b) $\frac{2}{7}$	c) $\frac{-2}{7}$	d) $\frac{7}{2}$			
3)The reciprocal of 0 is					
b)-1	c) 0	d) Not	t defined		
4) 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:					
b) 10b+30	c) 11b+3	d) 10b	p+3		
5) A linear Equation in 1 Variable has:					
a) Onle one solution b) Two solutions					
c)No solutions d) Infinite solution					
6) Which of the following is a linear equation in one variable?					
a) $X^2+1=0$ b) $y+y^2c$) $x^3-1=0$ d) $y+2=0$					
7) If the angles are in the ratio 1:2:3:4, the smallest angle is:					
b) 144	c) 36	d)18			
8) The number of sides of a regular polygon ,where each exterior angle has a measure of 45 is:					
b)10	c)4		d)6		
9) The sum of all exterior angles of polygon is:					
b) 360	c)540		d)720		
10) how many natural numbers lie between 5^2+6^2					
b)10	c) 11		d) 12		
11) The next two numbers in the Number pattern 1,4,9,6,16,25 are:					
b))36,4	49 c)36,	48	d)35,40		
12) Which of the following is not a perfect cube					
b)567	c) 12	5	d) 343		
13) The ones digit in cube of 23 is:					
b) 7	c) 3		d)9		
14) $\sqrt[3]{1000}$ is equal to					
b) 100	c) 1		d) None of these		
15) The product of monomial and binomial is:					
b) Bio	nomial c) Tr	inomial	d) None		
	rse of $\frac{5}{12}$ is: b) $\frac{12}{5}$ e of x is: b) $\frac{2}{7}$ s b)-1 s place of two and a linear b) 10b+30 n 1 Variable has on d) Infinitive of the second	rse of $\frac{5}{12}$ is: b) $\frac{12}{5}$ c) $\frac{5}{12}$ e of x is: b) $\frac{2}{7}$ c) $\frac{-2}{7}$ s b) -1 c) 0 s place of two digit number is: b) 10b+30 c) 11b+3 n 1 Variable has: on b) Two solut d) Infinite solution ving is a linear equation in o b) $y+y^2c$) $x^3-1=0$ the ratio 1:2:3:4,the smallest b) 144 c) 36 s of a regular polygon, when b) 10 c) 4 rior angles of polygon is: b) 360 c) 540 numbers lie between 5^2+6^2 b) 10 c) 11 bers in the Number pattern b) 36,49 c) 36, wing is not a perfect cube b) 567 c) 12 sube of 23 is: b) 7 c) 3 b) 100 c) 1 ponomial and binomial is:	rse of $\frac{5}{12}$ is: b) $\frac{12}{5}$ c) $\frac{5}{12}$ d) 1 e of x is: b) $\frac{2}{7}$ c) $\frac{-2}{7}$ d) $\frac{7}{2}$ s b)-1 c) 0 d) Note place of two digit number is 3 more e b. Then the number is: b) 10b+30 c) 11b+3 d) 10b n 1 Variable has: on b) Two solutions d) Infinite solution ving is a linear equation in one varial b) $y+y^2$ c) $x^3-1=0$ d) $y+2$ the ratio 1:2:3:4, the smallest angle is b) 144 c) 36 d) 18 s of a regular polygon ,where each e b) 10 c) 4 tior angles of polygon is: b) 360 c) 540 numbers lie between 5^2+6^2 b) 10 c) 11 bers in the Number pattern 1,4,9,6,1 b) 36,49 c) 36,48 wing is not a perfect cube b) 567 c) 125 sube of 23 is: b) 7 c) 3 b) 100 c) 1		

16) Common factors of 17abc,34
$$ab^2$$
, 51 a^2b^2 is:
a) 17abc b)17ab c) 17ac d) 17 a^2b^2c
Section-B

1) Represent the following on Number Line

i)
$$\frac{8}{3}$$
 b) $\frac{-5}{7}$ c) $\frac{2}{11}$

2) Three Consecutive Integers add up to 63. Find the Numbers.

3) Solve $\frac{7y+4}{y+2} = \frac{-4}{3}$

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 BN=5.6 cm DE= 6.5 cm

6) In a right triangle ABC, B=90 . If Ac=3 cm BC=5 cm . Find AB.

7) Find the cube root of 15625 by prime factorisation method.

8) Simplify
$$(4p+5q)^2 + (4p-5q)^2$$

9) Find the value of x if

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

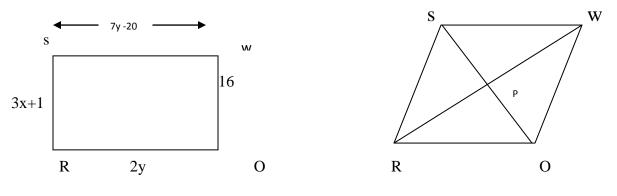
10) Simplify (a+b-c) (a-b+c)

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 a x (b-c) = a x b - a x c , $a = \frac{1}{2}$ $b = \frac{4}{5}$ $c = \frac{6}{7}$

3) Lakshmi is a cashier in a bank. She has a currency notes of denominations □100,□50 and □10 respectively. The ration of number of these notes is 2:3:5 .The total cash with Lakshmi is □800000.How many notes of each Denomination does she have?

4) Find the value of x and y



IF PS= 3x+5,OP= x+15,PS= y+7,PW=3y-15

5) Construct a Quadrilateral TRUE ,TR=3.5 cm, RU=3 cm , UE = 4cm \angle R= 75, \angle U=120°

6) Find greatest number of 6 digits which is a perfect square.

7)Find the Square root of 15 upto 3 decimal places.

8) Subtract

$$2ab^{2}c^{2} + 4a^{2}b^{2}c - 5a^{2}bc^{2} \text{ from } -10a^{2}b^{2}c + 4ab^{2}c^{2} + 2a^{2}bc^{2}$$
9) Simplify
$$\frac{-6^{5}-6^{7}}{-6^{3}}$$

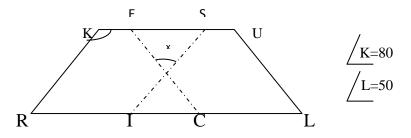
10)Three numbers are in ration 1:2:3 and the sum of their cubes is 4500.Find the numbers.

Section-D

1) Find the sum of additive inverse of $(\frac{1}{2} \times \frac{-3}{4})$ and multiplicative inverse of $(-4 \times \frac{8}{3})$

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°
- 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 cm².

6) Find the cube root of the following by using ones and tens digit.

i)17576 ii)704969

7) Show that

i) $(3x + 7)^2 - 84x = (3x - 7)^2$

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