DELHI PUBLIC SCHOOL JAMMU HALF YEARLY REVISION SHEET SESSION (2019-20)

Class: VII Subject: Mathematics

Торіс	cs:									
	CH-2 Fracti CH-5 Lines	ons and Decimals and Angles nal Numbers netry	CH-4 CH-6 CH- 13	Triangles a	Simple Equations Triangles and Its Properties Exponents and Powers					
A)	Choose the correct alternatives in each of the following:									
Q1.	$\left(\frac{3}{2}\right)^4$ is equal	to								
	a) $\frac{81}{16}$	b) $\frac{-3}{1}$	8 <u>1</u> c)	$\frac{16}{81}$	d) $\frac{-16}{81}$					
Q2.	Reciprocal of $2\frac{2}{5}$ is									
	a) $5\frac{3}{2}$	b) $3\frac{2}{5}$)	$2\frac{3}{5}$	d) $\frac{5}{13}$					
Q3.	To get number 40, the number $6\frac{2}{9}$ should be multiplied with									
	a) $7\frac{3}{6}$	b) $6\frac{2}{7}$	<u>з</u> с)	$3\frac{6}{7}$	d) $6\frac{2}{7}$					
Q4.	Which of the following statement is true?									
Q5.	a) $1.16 > 1.4$ b) $1.16 < 1.2$ c) $1.163 > 1.170$ d) $1.14 < 1.040$ The rational number which is neither positive nor negative is									
	a) 0	b) $\frac{1}{0}$	c)	1 d)	None of these					
Q6.	Absolute value of $\frac{-3}{2}$ is									
	a) $\frac{3}{2}$	b) $\frac{2}{3}$	c)	$\frac{-3}{2}$ d)	None of these					
Q7.		when decreased by 7	gives 8. The number	is						
0.0	a) 4	b) -4	c)	3	d) 5					
Q8.	If $4P - 10 = -2$, then t a) 3	b) -2	c)	2	d) 1					
Q9.	,	- /	ber of pairs of adjacen		/					
	a) 4	b) 3	c)	2	d) 6					
Q10.	The supplement of a a) 22^0	b) 142	/	122^{0}	d) 112^{0}					
Q11.										
Q12.	a) 8cm Which of the followi	· ·	· · · · · · · · · · · · · · · · · · ·	10cm	d) 5cm					
· ·	a) 5, 12, 13		15, 25 c)	15, 36, 39	d) 10, 24, 26					
Q13.		equal to								
	(3) (3) a) $\frac{3}{5}$	b) -2	c)	-1	d) $\frac{2}{5}$					

Q14.	$25 \div \frac{1}{5} = ?$						
	a) 5	b)	$\frac{1}{5}$	c)	125	d)	$\frac{1}{125}$
Q15.	0.24 when expressed in the	form of	$\frac{P}{q}$ is				
	a) $\frac{6}{25}$	b)	$\frac{4}{25}$	c)	$\frac{24}{10}$	d)	$\frac{3}{25}$
Q16.	A number is added to $\frac{-7}{9}$	and the	result is $\frac{5}{9}$. The numb	per is			
	a) $-\frac{2}{9}$	b)	$\frac{3}{4}$	c)	$\frac{4}{3}$	d)	$\frac{2}{9}$
Q17.	The root of $2y + 3 = 7$ is a) -2	b)	2	c)	3	d)	4
Q18.	If I take $\frac{2}{5}$ of a number and			ber that			
Q19.	a) 14 AOB is a straight line, a ray a) 55^0	b) y OC sta b)	15 and s on it, if $\angle AOC = 45^{\circ}$	c) 145 ⁰ , th c)	$12 \\ en \angle BOC \text{ is eq} \\ 35^0$	d) ual to d)	15 145 ⁰
Q20.	An angle is equal to 5 times a) 25°	/		- /		d)	60 ⁰

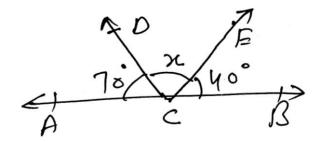
B) Very short answer type question:

Arrange in descending order: $\frac{4}{-9}$, $\frac{-5}{6}$, $\frac{-2}{3}$ Q1.

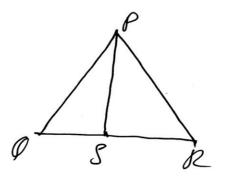
Q2. What should be added to
$$\frac{11}{48}$$
 to get $\frac{13}{16}$

- If the cost of a book is 29.75. Find the cost of 32 such books. Q3.
- Express the following in exponential notation. $\frac{16}{625}, \frac{-1}{27}$ Q4.

- By what number should we multiply $(\frac{1}{5})^7$ so that the product is equal to 5? Q5.
- Find the value of x. Q6.



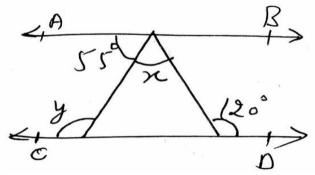
Q7. In the given figure, 'S' is a point on the side QR of $\triangle PQR$. Prove that PQ + QR + PR > 2PS.



Q8. The sides of a triangle are of lengths 6.5cm, 6cm and 2.5cm. Is this triangle is a right triangle? If so, which is the hypotenuse?

C) Short answer type question:

- Q1. The product of two numbers is $1\frac{1}{5}$. If one of the numbers is $\frac{4}{5}$. Find the other number.
- Q2. Find the area of rectangle whose length is 18.60m and breadth is 7.05m.
- Q3. Subtract $\frac{11}{20}$ from $\frac{-4}{5}$. Add $\frac{-9}{10}$ to the answer.
- Q4. Divide the sum of $\frac{65}{9}$ and $\frac{-11}{-3}$ by the product of $\frac{7}{6}$ and $\frac{5}{-3}$.
- Q5. The numerator of a fraction is 3 less than the denominator. If 1 is added to both its numerator and denominator, it becomes $\frac{2}{3}$. Find the fraction.
- Q6. In the given figure, if $AB \| CD$, find the value of x and y.



- Q7. Find the length of the diagonal of a rectangle whose sides are 15cm and 8cm.
- Q8. An exterior angle of a triangle measure 120^{0} and its interior opposite angle are in the ratio of 5 : 7. Find the angles of the triangle.

D) Long answer type question:

Q1. Find the value of x in each of the following:

a)
$$\left(\frac{2}{7}\right)^{-3} \times \left(\frac{2}{7}\right)^{-11} = \left(\frac{2}{7}\right)^{7x}$$
 b) $\left(\frac{1}{5}\right)^{-3} \times \left(\frac{1}{5}\right)^{-5} = \left(\frac{1}{5}\right)^{x}$

Q2. Simplify:

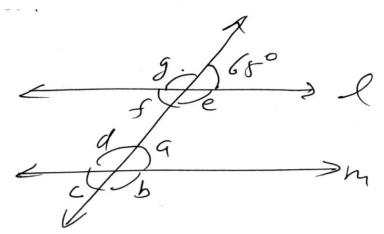
a)
$$\left(2 \times \frac{3}{4}\right) + \left[\frac{4}{3} + \left(\frac{3}{-2}\right)\right]$$
 b) $\left[\frac{20}{8} \times \left(\frac{-24}{15}\right)\right] - \left[8 \times \left(\frac{1}{-2}\right)\right]$

Q3. The total weight of contain bags of rice is 650.16kg. If each bag weigh 10.32kg. Find the number of bags.

Q4. A car covers a distance of
$$189\frac{1}{3}$$
 km in $4\frac{4}{9}$ hours. Find the distance covered in one hour.

- Q5. Write the following numbers in standard form.
 - i) 3080 ii) 856.23400 iii) 3800000000

Q6. In a given figure L||M. Find the unknown angles.



- Q7. The diagonals of a rhombus are 30cm and 16cm. Find its perimeter.
- Q8. In the given figure, find the length of AC.

