S.B.I.O.A. SENIOR SECONDARY SCHOOL, TRICHY – 07

CLASS: VIII		MATHEMATICS	DATE: 19.05.2020			
NAME:		REVIEW WORKSHEET – 1	DAY: Tuesday			
Fill	Fill in the blanks:					
01.	The number of digits in Indian Number System and International Number System					
	is					
02.	2. 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 are the					
03.	5. The counting numbers 1, 2, 3, 4, are called numbers.					
04.	4. The set of all Natural numbers is denoted by the letter					
05.	5. The Natural numbers together with zero are called numbers.					
06.	The set of all Whole num	pers is denoted by the letter				
07.	The Whole numbers and r	negative numbers together are called				
08.	The set of all Integers is d	enoted by the letter or				
09.	is the smallest	Natural number.				
10.	is the smalles	t Whole number.				
11.	Is it possible to find the la	rgest Natural number?				
12.	Is it possible to find the la	rgest Whole number?				
13.	Except, eve	ry Natural number has a predecessor.				
14.	Except, eve	ry Whole number has a predecessor.				
15.	All Natural numbers are .	numbers.				
16.	All Whole numbers are	Natural numbers.				
17.	Z ⁺ denotes the set of all	Integers.				
18.	Z^- denotes the set of all	Integers.				
19.	All positive integers are	than zero.				
20.	All negative integers are .	than zero.				

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CLASS: VIIIMATHEMATICSDATE: 29.05.2020NAME:RATIONAL NUMBERS WORKSHEET – 2DAY: FridayFill in the blanks:Fill in the blanks:Fill in the blanks

01. A number of the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$ is called a

..... number.

- 02. The set of all rational numbers is denoted by the letter
- 03. Q = The set of all rational numbers

$$= \{ \frac{p}{q} / p, q \in \dots \& q \dots 0 \}$$

- 04. is a special rational number.
- 05. Zero can be written as $0 = \frac{0}{q}$ where $q \neq \dots$

06. The sum of any two rational numbers is always a number. Therefore the rational numbers are closed under

- 07. For any two rational numbers $\frac{p}{q}$ and $\frac{r}{s}$, $\frac{p}{q} + \frac{r}{s}$ is also a number.
- 08. Is $\frac{13}{0}$ a rational number? Reason:
- 09. Is $\frac{0}{0}$ a rational number? Reason:
- 10. Are 70,30,276 rational numbers? Reason:

Answer the following:

Prove that the rational numbers are closed under addition. (*Hint: Consider any two rational numbers*)

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CLASS: VIIIMATHEMATICSDATE: 04.06.2020NAME:RATIONAL NUMBERS WORKSHEET – 3DAY: ThursdayFill in the blanks:Fill in the blanks:Fill in the blanks

- 01. The difference between any two rational numbers is always a number. Therefore the rational numbers are closed under
- 02. For any two rational numbers $\frac{p}{q}$ and $\frac{r}{s}$, $\frac{p}{q}$ $\frac{r}{s}$ is also a number.
- 03. The product of any two rational numbers is always a number. Therefore the rational numbers are closed under
- 04. For any two rational numbers $\frac{p}{q}$ and $\frac{r}{s}$, $\frac{p}{q} \times \frac{r}{s}$ is also a number.
- 05. The division of any rational numbers is always a rational number. Therefore the collection of non-zero rational numbers are closed under
- 06. If $\frac{p}{q}$ and $\frac{r}{s}$ are two rational numbers, such that $\frac{r}{s}$ 0, then $\frac{p}{q} \div \frac{r}{s}$ is also a rational number.
- 07. Add: $\left(\frac{3}{8}\right) + \left(\frac{-5}{8}\right)$ 08. Add: $\left(\frac{-2}{11}\right) + \left(\frac{3}{11}\right) + \left(\frac{-4}{11}\right)$ 09. Add $\frac{-4}{9}$ and $\frac{5}{18}$ 10. Add $\frac{-3}{8}$, $\frac{-1}{2}$ and $\frac{5}{6}$ 11. Subtract: $\left(\frac{6}{35}\right) - \left(\frac{-8}{25}\right)$
- 12. Subtract: $\left(\frac{-3}{4}\right) \left(\frac{6}{7}\right)$
- 13. Subtract $\frac{-14}{39}$ from $\frac{-6}{13}$
- 14. Subtract $\left(\frac{-7}{26}\right)$ from $\frac{11}{39}$

15.	Multiply $\frac{-3}{7}$ and $\frac{7}{8}$
16.	Multiply $\frac{-6}{11}$ and $\frac{55}{12}$
17.	Multiply $\frac{9}{5}, \frac{-10}{3}$ and $\frac{15}{18}$
18.	Find the product of $\frac{-5}{6}$ and $\frac{4}{-15}$
19.	Find the product of $\frac{-50}{7}$ and $\frac{21}{10}$
20.	Find the product of $\frac{-8}{25}$, $\frac{-5}{16}$ and $\frac{-30}{12}$
21.	Divide: $\frac{-8}{35} \div \frac{-6}{30}$
22.	Divide: $\frac{-3}{4} \div \frac{13}{40}$
23.	Divide $\frac{-4}{9}$ by $\frac{-16}{3}$
24.	Divide $\frac{3}{90}$ by $\frac{13}{40}$
25.	Divide $\frac{2}{3}$ by $\frac{-15}{20}$

Answer the following: (*Hint: Consider any two rational numbers*)

- 01. Prove that the rational numbers are closed under subtraction.
- 02. Prove that the rational numbers are closed under multiplication.
- 03. Prove that the non-zero rational numbers are closed under division.

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CL	LASS: VIII MATHEMATICS	CS DATE: 11.06.2020			
NA	ME: RATIONAL NUMBERS WORK	KSHEET – 4 DAY: THURSDAY			
Fill in the blanks:					
01.	The two rational numbers can be added in any				
02.	Addition is commutative for numbers.				
03.	For any two rational numbers $\frac{p}{q}$ and $\frac{r}{s}$, $\frac{p}{q} + \frac{r}{s} = \dots$	$\dots + \frac{p}{q}$			
04.	Subtraction is commutative for rational numbers.				
05.	Multiplication is commutative for numbers.				
06.	For any two rational numbers $\frac{p}{q}$ and $\frac{r}{s}$, $\frac{p}{q} \times \frac{r}{s} = \dots$	$\dots \times \frac{p}{q}$			
07.	$\frac{-7}{5} + \frac{6}{7} = \frac{6}{7} + \dots$				
08.	$\frac{9}{10} + \dots = \frac{5}{11} + \dots$				
09.	$0 + \frac{12}{11} = \dots + 0$				
10.	$\left(\frac{-u}{v}\right) + \frac{w}{x} = \frac{w}{x} + \dots$				
11.	$\frac{l}{m} + \left(\frac{-p}{q}\right) = \left(\frac{-p}{q}\right) + \dots$				
12.	$\frac{a}{b} + 0 = 0 + \dots$				
13.	$\left(\frac{-14}{3}\right) + \left(\frac{2}{3}\right) \dots \left(\frac{2}{3}\right) + \left(\frac{-14}{3}\right)$				
14.	$\left(\frac{-14}{3}\right) - \left(\frac{2}{3}\right) \dots \left(\frac{2}{3}\right) - \left(\frac{-14}{3}\right)$				
15.	$\frac{99}{2} - \left(\frac{-6}{7}\right) \dots \left(\frac{-6}{7}\right) - \frac{99}{2}$				
16.	$\left(\frac{-102}{17}\right)$ $\left(\frac{12}{17}\right)$ $\left(\frac{12}{17}\right) - \left(\frac{-102}{17}\right)$				
17.	$\left(\frac{44}{21}\right) - \left(\frac{11}{9}\right) \neq \left(\frac{11}{9}\right) \dots \left(\frac{44}{21}\right)$				
18.	$\left(\frac{111}{30}\right) - \left(\frac{84}{6}\right) \dots \left(\frac{84}{6}\right) - \left(\frac{111}{30}\right)$				
19.	$\left(\frac{-a}{b}\right) - \left(\frac{-c}{d}\right) \neq \dots - \left(\frac{-a}{b}\right)$				

20. $0 \times \frac{1}{7} = \dots \times 0$ 21. $\frac{5}{9} \times \frac{18}{25} = \frac{18}{25} \times \dots$ 22. $\frac{-27}{81} \times \frac{33}{11} = \dots = \frac{33}{11} \times \frac{-27}{81}$ 23. $\frac{0}{14} \times \frac{-14}{28} = \dots = \frac{-14}{28} \times \dots$ 24. $\frac{2}{8} \times \frac{5}{10} = \dots = \frac{5}{10} \times \frac{2}{8}$ 25. $\frac{a}{b} \times \frac{c}{d} = \dots = \frac{c}{d} \times \frac{a}{b}$

Answer the following: (*Hint*: Consider any two rational numbers)

- 01. Prove that the addition is commutative for rational numbers.
- 02. Prove that the subtraction is not commutative for rational numbers.
- 03. Prove that the multiplication is commutative for rational numbers.