MATHS HOLIDAYS HOMEWORK **CLASS VII**

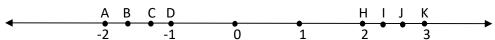
1. Find the value of x if the following pairs of rational numbers are equivalent:

i)
$$\frac{4}{5}$$
, $\frac{x}{95}$

ii)
$$2\frac{1}{5}, \frac{x}{-15}$$

- 2. Represent $\frac{5}{7}$, $\frac{7}{5}$ and $\frac{3}{-11}$ on the number line.
- 3. Arrange these rational numbers in ascending order: $\frac{-4}{3}$, $\frac{-13}{-4}$, $\frac{15}{-20}$, $\frac{7}{-12}$
- 4. Add rational numbers $\frac{-3}{7}$, $\frac{-5}{8}$ and $\frac{13}{28}$
- 5. Subtract i) $\frac{-4}{9}$ from $\frac{1}{9}$ ii) $\frac{3}{4}$ from $\frac{1}{-12}$
- 6. The sum of two rational numbers is $\frac{-18}{21}$. If one rational number is $\frac{-3}{7}$, find the other.
- 7. What should be added to $\frac{-5}{14}$ to get $\frac{-2}{21}$?
- 8. Simplify: i) $\frac{51}{45} \times \frac{21}{17} \times \frac{5}{7}$ ii) $(\frac{-3}{5} \times 1\frac{3}{5}) (1\frac{1}{3} \times 2\frac{1}{4})$ 9. Divide i) $\frac{17}{24}$ by $\frac{7}{8}$ ii) $\frac{-13}{22}$ by $\frac{5}{-1}$

- 10. A carpenter has a board which is $\frac{2}{3}$ m thick. He cuts $\frac{1}{9}$ m thick section out of it. How many total sections will he cut?
- 11. The product of two rational numbers is $\frac{-5}{16}$. If one of them is $\frac{3}{32}$, find the other.
- 12. Without actual division, determine which of the following rational numbers have a terminating decimal representation:
- iii) $\frac{18}{45}$ iv) $\frac{12}{91}$
- 13. On the number line, if AB=BC=CD=HI=IJ=JK, then Find the rational number represented by: B, C, I and J.



- 14. Simplify: i) $\frac{3}{7} (\frac{-11}{14}) + \frac{8}{21}$ ii) $[\frac{(-5)}{7} + \frac{1}{3}] \div [\frac{12}{21} + 1]$
- 15. Find the decimal representation of: i) $\frac{1}{6}$

- 16. If $\frac{a}{b} \div \frac{5}{2} = \frac{10}{12}$, then what is the value of $\frac{a}{b}$?
- 17. Which is greater: the product of $\frac{-7}{16}$ and $\frac{32}{-35}$ or the quotient of $\frac{3}{11}$ and $\frac{-21}{44}$?
- 18. Complete the following tables:

Alphabet Letters	Line of Symmetry	Number of lines of Symmetry
Z	No	
S		
Н	Yes	
0		
E		
С		

::1				
ii)	Daluman		Number of sides	Number of the sof
	Polygon		Number of sides	Number of Lines of symmetry
	Equilateral triangle	<u>;</u>		- Cymmed y
	Square			
	Regular pentagon			
	Regular hexagon Regular heptagon			
iii)	Regulai Heptagoli			
		T		D 11 CC .
Name of Square	2-D geometrical shape	Numi	ber of lines of symmetry	Draw lines of Symmetry
Square				
Rectangle	9			
Parallelo	gram			
General (Quadrilateral			
Kite				
Rhombus	3			
Isosceles	Trapezium			
NOTE: Th	ne worksheet should be sc	lved or	n loose sheets and submitte	ed in a folder.
PRO	DJECT WORK: Exploring Syr Nature.	nmetry	in (F)	
Col	lect pictures of symmetrical te them in a scrap book. Dr			