

	CENTRAL SCHOOL Rive Reach							
CLASS	: VII HOLIDAY HOME WORK SUBJECT : MATH							
	WEEK – 1 HCF AND LCM							
1)	Find the common factors : a) 63, 91 b) 96, 120							
2)	Find the prime factorization : a) 1226 b) 1035							
3)	Find HCF : a) 219, 1022 b) 144, 180, 192							
4)	Find LCM : a) 112, 160, 188 b) 32, 48, 60, 72							
5)	The HCF and LCM of two numbers are 131 and 8253 respectively, if							
	one of the numbers is 917 find the other.							
6)	The number having more than two factors are called							
7)	The LCM of two consecutive numbers is their							
8)	Find the first five multiples of a) 36 b) 14							
9)	Write all the prime numbers from 1 to 100.							
10)	Write 10 pairs of coprime numbers.							
WEEK- 2 : FRACTIONS								
1)	Convert the following to like fractions :							
	5 14 6 2 14 b) 2 8 4							
	a) $\frac{1}{9}, \frac{1}{3}, \frac{1}{19}, \frac{1}{7}, \frac{1}{15}$ b) $\frac{1}{7}, \frac{1}{5}, \frac{1}{9}$							
	180							
2)	Convert into simplest form a) $\frac{1}{220}$ b) $\frac{1}{105}$ c) $\frac{1}{39}$ d) $\frac{1}{60}$							
	2 8 6 5							
3)	$\frac{1}{2}$ , $\frac{1}{0}$ , $\frac{1}{7}$ , $\frac{1}{8}$ Arrange in ascending order.							
	5 9 7 8 1 1 1 1 1							
4)	$\frac{1}{2}, \frac{1}{14}, \frac{1}{2}, \frac{1}{14}, \frac{1}{15}$ Arrange in descending order.							
	3 14 8 11 15							
5)	Find the sum a) $\frac{18}{10} + \frac{15}{10}$ b) $\frac{3}{10} + \frac{6}{10} + \frac{1}{10}$							
,	5 5 5 7 3							
6)	Subtract : a) $\frac{1}{2}$ from $\frac{7}{2}$ b) $\frac{4}{2}$ from $\frac{2}{2}$ c) $\frac{2}{2}$ from $\frac{5}{2}$							
0)	8 12 11 5 9 12							
	$(5 - 5)^{2} + (5 - 5)^{3} + $							
/)	Evaluate: a) $2 - x 4 - \frac{1}{7}$ b) $2 - x 1 - \frac{1}{7}$ c) $7 x 2 - \frac{1}{7}$							
	1							
8)	Divide the sum of 5 $\frac{1}{12}$ and 3 $\frac{1}{3}$ by their difference.							
	1 9 1 2							
9)	Find $6\frac{1}{2} \times \frac{1}{12}$ and $7\frac{1}{2} \times \frac{1}{15}$ and find difference.							
1)								
T)	120 apples are packed in x carton equally. How many apples are							

packed in each carton ?

b) *x* decreased by 12 c) The difference between **a** and **b** (a > b) d) 5 times x added to 9 times y. e) 3 less than the sum of *a* and *b*. f) **x** multiplied by itself is subtracted from 35. 3) A man buys a car for  $\overline{\mathbf{x}}$  and sells it for  $\overline{\mathbf{y}}$ . What is the loss ? 4) An apple weighs 150 g and an orange weighs 75g find the weight of **x** apples and **y** oranges. Classify the following as monomial, binomial and trinomial. 5) b) 2a + 3b c) 4abc + 2a a) 20 xvz f)  $- a^2 b^2 c^2$ e) 5 + x d) 6a – 3b – 9c 6) The present age of Harish is *x* years. Find his age a) Five years from now b) Fifteen years back Observe the given pattern and find the general rule and 100<sup>th</sup> term. 7) Write the following algebraic expression in the form of statements. 8) c) 2x + <u>*p*</u> a) 4x + 3y b) 4abc There are  $\mathbf{x}$  pencils each in y boxes. How many pencils are their in all? 9) State whether the given pairs are like and unlike terms. 10) b)  $2x^2y$ ,  $-2xy^2$ c)  $9mpn^2$ ,  $mpn^2$ a) 7xy, 3yx 11) Identify the like terms in the following :  $2xy, -xy^2, x^2y, 5y, 8yx, 12yx^2, -11xy$ WEEK – 4 : INTEGERS Using the number line, write the integer which is 1) a) 5 more than – 3 b) 9 less than 7 Find the sum a) -5+8 b) -3+5+(-2)c) - 3 + (-4) + (-6)2) Find the sum : a) 100 + (-55) + (-45) b) -45 + (-37) + (-8) + 1003) c) 217 + 100 + (-17) Fill in the blanks. 4) a) 425 - () = 0b) 728 + \_\_\_\_ = 356

Write the algebraic expression for the following.

2)

a) *a* increased by 10

c)  $(-1)^{-1} + 126 = -23$  d) -7 + (-8) + (15)

5)	Find the value $a_1 = 7 - 8 - (-7)^{-1}$	of the fo	llowing	g. b) _ 10	1 + 20 - 8	(+(-1))				
	c) $10 - (-10) -$	d) = 7 + (-8) + 15								
6)	$U_1 = U_1 $									
7)	Complete Multiplication table									
')		. 7 1		. 17	+ 13					
		/ 1.	, 	1/	1 15					
	-2									
	<u></u> Λ									
8)	Find the value	of $5 - 6 - 6$	+ {19 -	(16 - 1)	2)}					
9)	Simplify: 3 of $15 - [12 - {5 + 60 - (6 - 7 + 5)}]$									
10)	Divide the following :									
10,	a) $882 \div -12$ b) $-525 \div (-25)$									
	c) $180 \div (-6)$	- 72		d) 22		-) = 0				
	c) 100 · ( 0)	\ <b>\</b> /FF	- K _ 5	· DFC		- 0				
1)	Write the following fraction as desimals									
1)	215	12		is ucci	патз. Д		Q			
	a) $\frac{215}{100}$	b) $\frac{12}{12}$	, 		c) $\frac{1}{2}$		d) $\frac{y}{40}$			
2)	100 Write decimals	123 Since fracti	) ions in	thair l	C towost		40			
2)	a) 7 52	b as i act h) א ח	5	then i	c) 2 375		d) 0 01075			
3)	Write the follo	wing der	Simals i	n evna	nded for	' m	u) 0.01075			
5)	a) 569 649	h) 26	945	пслр	c) 49 38	111.				
4)	Find the sum a) $0.87 + 0.5$ b) 25 076 0 55 0 504 c) 67 35 22 65									
5)	Subtract : a) 3.	515 from	າ 8.5		b) 5.50	from 16.9	95			
-,	c) 22	2.35 fron	n 36.75	5	d) 8.847	7 from 19	.65			
6)	Convert the fo	llowing :			,					
a) 4 cm 2 mm to cm b) 167 cm to m										
	c) 3m 5 cm to m d) 2.9 kg into g e) 5200 mL into L									
7)	Find the product a) 3.4 x 6 b) 4.05 x 6.5 c) 0.805 x 12.75									
8)	Find the product a) 65.7 x 100 b) 0.765 x 10 c) 69.817 x 100									
9)	Divide : a) 24.5	5 ÷ 7	b) 18.	042 ÷	6	c) 639	).45 ÷ 15			
	d) 64.96 ÷ 1.6		e) 6.8	÷0.4						
10)	Karim purchased a book for ₹ 65.65. He gave ₹ 100, how much									
	money did he	get back	?							
	WEE	(– 6 : R	ATIO	N ANI	D PROP	ORTION				
1)	Express the ra	tios in siı	mplest	form.						
	a) 20 : 35		b) 32 t	o 72		c) 80 p	aise to₹4			
	d) 20 mins to 1	. hr	e) 450	g to 1	kg	f) 3.5 n	n to 25 m			
2)	Fill in the missi	ng numb	oers							
	16 -					10	_			

a) 
$$\frac{15}{18} = \frac{\Box}{6} = \frac{\Box}{54} = \frac{20}{\Box}$$
 b)  $\frac{6}{10} = \frac{\Box}{26} = \frac{18}{\Box} = \frac{\Box}{55}$ 

- 3) Compare the following ratios using the signs > or <.</li>
   a) 2 : 5 □ 3 : 7
   b) 1 : 7 □ 5 : 2
   c) 5.81 □ 7 : 5
- 4) Vandana works in a school and earns ₹ 12,450 per month. She saves
  ₹ 2,490 per month from her salary. Find the ratio of :
  a) her saving to her income
  b) her saving to her expenditure
- 5) Divide ₹ 128 between Kapil and Madan in the ratio 3 : 5.
- 6) Which of the following are in proportion ?
  a) 12, 16, 21, 28
  b) 23,44,75,100
  c) 21,16k,25,20
  d) 1,5,5,25
- For what value of x, are the following in proportion ?
  a) 12, 20, 96, x
  b) 2, 9, x, 72
  c) 4, x, 24, 42
  d) x, 30, 24, 16
- 8) Are the following ratios in proportions ?
  a) 3 kg : 50 kg and 150 g : 2.5 kg
  b) 25 cm : 2m and ₹ 50 : ₹ 400
- 9) A dozen eggs cost ₹ 36. Find the cost of 7 eggs.
- 10) A train covers 250 km in 5 hours. How many kilometers will it cover in 9 hours ?
- 11) A rail journey of 75 km costs ₹ 315. How much will a journey of 120 km cost ?

## WEEK - 7

- Write the following in decimal form

   a) Fire and seven hundredths
   b) Sixty-three thousandths
- 2) If Anita pays ₹ 12,000.75 per month as rent to her landlord, then how much rent does she pay in a year ?
- 3) A bottle of jam weighs 1.2 kg. How many bottles of jam would weigh 7836 kg ?
- 4) Express 0.015 as a fraction and write it in its simplest form. Also find the sum of the numerator and the denominator of the simplified fraction.
- 5) Simplify : 234.01 + 23.78 11.101.
- 6) What should be subtracted from 16 to get 11.25?
- 7) What shuld be added to 902.57 to get the smallest 4-digit number ?
- 8) A rectangular plot has length 21.5 cm and breadth 12.5 m. Find the area of the plot.
- 9) Eesha travelled 15 km 268 m by bus, 7 km 7m by car and 500 m on foot to reach her friends residence. How far is her friends house from her residence.
- 10) The cost of 41g of apples is ₹ 10.25. Find the cost of 1 kg of apple.