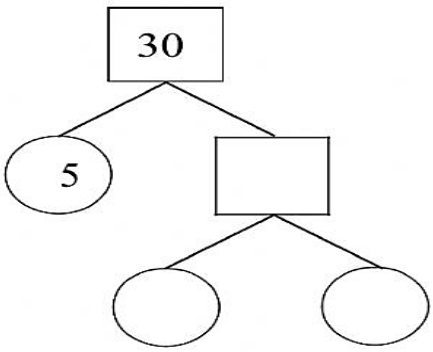
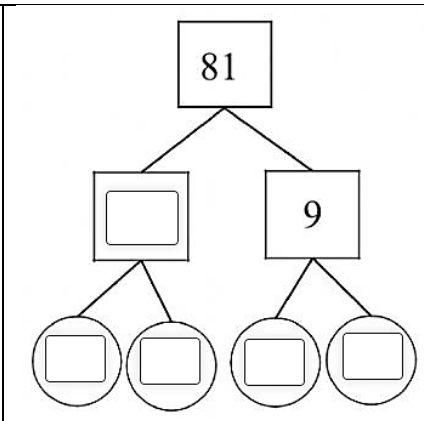
INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics (2022-23)

Worksheet DTQ – Playing with numbers

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)	
Q1.	Write all the factors of the following numbers: a)56 b)30
Q2.	Write all the multiples of 7 less than 40
Q3.	Do as directed: i) List all the numbers between 90 and 100. ii) Underline the prime numbers and circle the composite numbers in the numbers listed above.
Q4.	Express the following as a sum of two odd primes: a) 26 b) 18
Q5.	State whether the following statements are true or false. If it is false, give reason. a) Sum of any two prime numbers is always even. b) Co-prime numbers are always prime numbers.
Q6.	Find the LCM of 16,24 and 40.
Q7.	Check using divisibility rule if 88169378 is divisible by 11. Show the steps.
SHORT ANSWER TYPE - 5 QUESTIONS. (3 Marks each)	
Q8.	Check whether 2096 is divisible by: a)2 b)3 c)6 State appropriate reasons.
Q9.	Find the least length of a cloth that can be cut into whole number of pieces of lengths 25cm, 50 cm and 40 cm.
Q10.	The length breadth and height of a room are 6 m 80 cm, 5 m 10 cm, 3m 40 cm respectively. Find the longest tape which can measure the dimensions of the room exactly.
Q11.	Find the greatest 3-digit number which is exactly divisible by 40, 48 and 60.
Q12.	Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case.
LONG ANSWER TYPE - 3 QUESTIONS. (4 Marks each)	
Q.13	Using division method, find the prime factorisation of: a)216 b)420

Q.14	Fill in the empty boxes to complete the factor tree: 	
Q15.	If 210 oranges, 252 apples and 294 pears are packed equally in cartons so that no fruit is left. What is the biggest possible number of cartons needed?	

ANSWERS					
Q1.	a)1,2,4,7,8,14,28,56 b)1,2,3,5,6,10,15,30	**Q2.**	7,14,21,28, 35	**Q3.**	Prime:97 Composite:91,92,93,94,95,96,98,99
Q4.	a)23+3 b)13+5	**Q5.**	a) False b) False	**Q6.**	240
Q7.	Divisible by 11	**Q8.**	a) Yes b) No c) No	**Q9.**	200 cm
Q10	170 cm=1 m 70 cm	**Q11**	240x4=960	**Q12**	151
Q13	a) 2x2x2x3x3x3 b) 2x2x5x3x7	**Q14**	a)5 x 6 2 x 3 b)9 x9 3x3x3x3	**Q15**	42 cartons