INDIAN SCHOOL AL WADI AL KABIR Dept. of Mathematics 2021 – 2022 Class X – Revision Work Sheet – Pre-Mid Term Case Study Questions – Real Numbers										
CASE STUDY 1:										
	A seminar is Educational C participants wil subjects. The r Hindi, English 84 and 108 resp	being conducted organisation, whe l be educators of d number of particip and Mathematics pectively.	by an ere the lifferent pants in are 60,							
1	In each room the same number of participants are to be seated and all of them being in the same subject, hence maximum number participants that can accommodated in each room are									
	a) 14	b) 12	c) 16	d) 18						
2	What is the minimum number of rooms required during the event?									
	a) 11	b) 31	c) 41	d) 21						
3	The LCM of 60	The LCM of 60. 84 and 108 is								
	a) 3780	b) 3680	c) 4780	d) 4680						
4	The product of	The product of HCE and I CM of 60.84 and 108 is								
	a) 55360	b) 35360	c) 45500	d) 45360						
5	108 can be expressed as a product of its primes as									
	a) $2^3 \times 3^2$	b) $2^3 x$	c) $2^2 \times 3^2$	d) $2^2 \times 3^3$						
	Case Study 2									
	To enhance the reading skills of grade X students, the school nominates you and two of your friends to set up a class library. There are two sections- section A and section B of grade X. There are 32 students in section A and 36 students in section B.									
6	What is the mir be distributed e a) 144	imum number of qually among stuc b) 128	books you will acq lents of Section A c) 288	uire for the class library, so that the or Section B? d) 272	hey can					
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7	If the product of two positive integers is equal to the product of their HCF and LCM is true then, the HCF (32, 36) is					
	a) 2	b) 4	c) 6	d) 8		
8	36 can be expressed as a product of its primes as					
	a) $2^2 \times 3^2$	b) $2^2 \ge 3^3$	c) $2^3 \times 3^1$	d) $2^0 \ge 3^0$		
	Case Study 3		x	2C		
	A Mathemati being conduct and one of making a mod He has some of for your help quiz for the a	cs Exhibition is ed in your School your friends is el of a factor tree. difficulty and asks in completing a udience. Observe	5 2783 V 253			
	the following answer the following	factor tree and lowing:		z		
9	What will be the value of x?					
	a) 15005	b) 13915	c) 56920	d) 17429		
10	What will be the value of y?					
	a) 23	b) 22	c) 11	d) 19		
11	What will be the value of z?					
	a) 22	b) 23	c) 17	d) 19		
12	According to Fundamental Theorem of Arithmetic 13915 is a					
	a) Composite number		b) Prime number	b) Prime number		
	c) Neither prime nor composite		d) Even number			
13	The prime factorisation of 13915 is					
	a) 5 x 11 ³ x 13	b) $5 \times 11^3 \times 2^3$	d) $5 \times 11^2 \times 23$	d) 5 x 11 ² x 13 ^s		

Answers						
Case Study: 1	Case Study: 2	Case Study: 3				
1. b) 12	1. c) 288	1. b) 13915				
2. d) 21	2. b) 4	2. c) 11				
3. a) 3780	3. a) $2^2 \ge 3^2$	3. b) 23				
4. d) 45360		4. a) composite number				
5. d) $2^2 \times 3^3$		5. c) 5 x 11 ² x 23				