

Math 6

UNIT 2 – Interactive Notebook 2-7 Least Common Multiple and Greatest Common Factor



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2-7 Least Common Multiple and Greatest Common Factor

Least Common Multiple				
	LCM(4 and 12) =			
	Multiples of 4:	4, 8, <mark>12,</mark> 16		
	Multiples of 12:	<mark>12</mark> , 24, 36, 48		
		LCM (4 and 12) =12		
Find the LCM Using Prime Factorization				
Step 1:	First use factor trees to find			
	the prime factors of each	4 = 2 x 2		
	number.	12 = <mark>2</mark> x <mark>2</mark> x <mark>3</mark>		
Step 2:	Write each prime factor the			
	greatest number of times it	2 x 2 x 3 = 12		
	appears in any of the	LCM (4 and 12) =12		
	numbers. Then multiply the			
	factors.			
		LCM (4 and 12) =12		

2-7 Least Common Multiple and Greatest Common Factor

	Greatest Common F	actor	
	GCF(4 and 12) =		
	List all the factors of 4:	1, 2, 4	
	List all the factors of 12:	1, 2, 3, 4, 12	
	Find the common factors:	1, 2, 4	
	Choose the greatest common factor.	GCF (4 and 12) = 4	
Find the GCF Using Prime Factorization			
Step 1:	First use factor trees to find		
	the prime factors of each	4 = 2 x 2	
	number.	12 = <mark>2</mark> x <mark>2</mark> x 3	
Step 2:	Then multiply the prime	2 x 2 = 4	
	factors that are common to		
	both to find the GCF		
		GCF (4 and 12) =4	

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Task Cards

Match the pink card with blue card.



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Task Cards



Garry has two beepers red and blue. Blue beeper beeps every 25 second and red beeper beeps every 35 seconds. After how many seconds both beepers beeps at same time?













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ANSWER KEY

Problem 1	LCM(5,30)=30
Problem 2	GCF(16, 64) = 16
Problem 3	LCM(40, 16) = 80
Problem 4	GCF(14, 343) = 7
Task Cards	

1. c. 2. h. d. 3. f. 4. 5. a. 6. b. 7. e. i. 8. 9. g.

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