

# Assignment Record Sheet

Math Core A

Full Name: \_\_\_\_\_

**Week: 10/7-10/11**

Unit Name: Prime Time

Period: 4

Date Assigned	Focus Question??	Homework (IP=in packet)	Meets Expectation (15 points)	Approaching Expectations (5 points)	Below Expectation (0 points)
<b>Monday Oct. 7</b>	<i>How can the prime factorization of a number be used to find the LCM and GCF of two or more numbers?</i>	<b>WU:</b> Intro. To prime factorization <b>CW:</b> Prob. 3.3 A (IP) <b>HW:</b> ACE #21, 22 & 24 p. 58	<b>WU:</b> <b>CW:</b> <b>HW:</b>		
<b>Tuesday Oct. 8</b>	<i>How can the prime factorization of a number be used to find the LCM and GCF of two or more numbers?</i>	<b>WU:</b> Review LCM & GCF <b>CW:</b> Prob. 3.3 B & D p. 50 <b>HW:</b> ACE #27 p. 55	<b>WU:</b> <b>CW:</b> <b>HW:</b>		
<b>Wed. Oct. 9</b>	<i>How can the prime factorization of a number be used to find the LCM and GCF of two or more numbers?</i>	<b>WU:</b> None <b>CW:</b> Quiz Corrections <b>HW:</b> None	<b>WU:</b> <b>CW:</b> <b>HW:</b>		
<b>Thursday Oct. 10</b>	<i>How can the prime factorization of a number be used to find the LCM and GCF of two or more numbers?</i>	<b>WU:</b> None <b>CW:</b> Check Up 2 Review <b>HW:</b> None	<b>WU:</b> <b>CW:</b> <b>HW:</b>		
<b>Friday Oct. 11</b>	<i>How can the prime factorization of a number be used to find the LCM and GCF of two or more numbers?</i>	<b>WU:</b> None <b>CW:</b> Check Up 2 <b>HW:</b> None <b>Turn in your packet</b>	<b>WU:</b> <b>CW:</b> <b>HW:</b>		

**Total Homework Score for the Week: \_\_\_\_\_/75**

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**Daily Materials Score \_\_\_\_\_/25**

Name ..... Date ..... Class Per. 4

## Prime Time

Complete the vocabulary chart by filling in the missing information.

Term	Definition	Example
divisor	A number that divides a given number leaving a zero remainder.	$20 \div 5 = 4$ 5 is a divisor of 20.
factor	One of two or more whole numbers that are multiplied to get a product.	5 and 10 are both factors of 50.
composite number	A whole number with factors other than itself and 1.	6, 15, 20, 28
prime number	A number with exactly two factors, 1 and the number itself.	1 is not a prime number, but 3 and 5 are prime numbers.
multiple	A product of a whole number.	Multiples of 3 include: 3, 6, 9, 12... 12 is a multiple of 3.
square number	A number that is a result of that number multiplied by itself.	$9 = 3 \times 3$ $64 = 8 \times 8$
least common multiple (LCM)	The least multiple that two or more numbers share.	6 and 8 shared multiples: 24, 48, 72 24 is the (LCM)
greatest common factor (GCF)	The greatest factor that two or more numbers share.	1, 2, 3 & 6 are common factors of 12 and 30. 6 is the (GCF) of both.

## Prime Time *(continued)*

Term	Definition	Example
exponent	The small raised number that tells how many times a factor is used	$5^3 = 5 \times 5 \times 5$
prime factorization	A product of prime numbers.	$315 = 3 \times 3 \times 5 \times 7$
relatively prime numbers	A pair of numbers with no common factors except 1.	20 and 33 only have 1 in common.
adjacent sides		
equivalent expressions		
even number		
odd number		
Distributive Property		
expanded form		
factored form		
Order of Operations		

C/w

**Labsheet 3.3**

**GCF & LCM Notes**

**GCF and LCM Notes**  
**GCF = Greatest Common Factor**  
**LCM = Least Common Multiple**

GCF	Using Lists	Prime Factorization	Venn Diagram and Prime Factorization
LCM			

**Check Up 2 Review** for use after Investigation 3

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1. Write three different factorizations of the number 16. Do not use 1 as a factor.
  
  
  
  
  
  
  
  
  
  
2. Use the prime factorizations of 24 and 28 to find their greatest common factor.
  
  
  
  
  
  
  
  
  
  
3. Use the prime factorizations of 24 and 28 to find their least common multiple.
  
  
  
  
  
  
  
  
  
  
4. Find the prime factorization of 300. Write your answer using exponents.
  
  
  
  
  
  
  
  
  
  
5. a. What number has the prime factorization  $2^6 \times 5^6$ ? Show how you found your answer.
  
  
  
  
  
  
  
  
  
  
- b. Is there another number that has the prime factorization  $2^6 \times 5^6$ ? Explain.