GCF

Factor: numbers that are multiplied to give a product

EX: Find the GCF of 12 and 30

<u>12</u>	<u>30</u>		
1, 12	1, 30		
2, 6	2, 15		
3, 4	3, 10		
	5, 6		

The largest factor in common is 6

You Try

1 Find the GCF of 27 and 54.

2. Find the GCF of 28 and 84.

LCM

Multiple: SKIP COUNTING

The product of the number and

another whole number

EX: Find the LCM of 12 and 30

<u>12</u>: 12, 24, 36, 48, 60, 72,

30: 30, 60, 90, 120,

The smallest multiple in common is 60

You Try

1. Find the LCM of 8 and 10.

2. Find the LCM of 6 and 14.

1.	Last summer, Karl went to the beach every 7 days. Antonia went to the beach every 3 days. How often did they see each other at the beach?				
	Last summer, Karl and Antonia saw each other at the beach every days.				
2.	String Lengths You have two pieces of string. One is 8 cm long. The other is 20 cm long. You want to cut each piece of string into smaller pieces of equal length. Each length is to be a whole number of centimeters. List all the possible lengths of the shorter pieces. What is the greatest common length from these two lists?				
3.	Winning Numbers A group of people are waiting in line for a movie premiere. Every 15th person in line will receive a free movie ticket. Every 6th person will receive a gift card for \$35. Which person is the first to win both prizes? If there are 200 people in line, how many people will receive both prizes?				
	The th person in line is the first person to win both prizes.				
	If there are 200 people in line, people will receive both prizes. Hint: Skip Count to 200 and see how many common multiples there are.				

GCF

Factor: numbers that are multiplied to give a product

EX: Find the GCF of 12 and 30

<u>12</u>	<u>30</u>	
1, 12	1, 30	
2(6)	2, 15	
3, 4	3, 10	
	5,6	

The largest factor in common is 6

You Try

Find the GCF of 27 and 54.

$$\frac{27}{1,27}$$
 $\frac{54}{1,54}$ $\frac{3,9}{2,27}$ $\frac{3,18}{6,9}$

2. Find the GCF of 28 and 84.

LCM

Multiple: SKIP COUNTING

The product of the number and another whole number

EX: Find the LCM of 12 and 30

<u>12</u>: 12, 24, 36, 48, 60, 72,

30: 30, 60, 90, 120,

The smallest multiple in common is 60

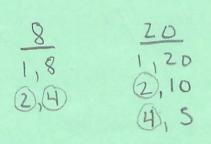
You Try

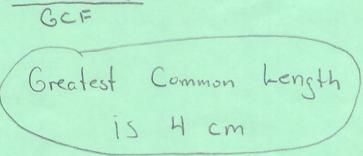
1. Find the LCM of 8 and 10.

2. Find the LCM of 6 and 14.

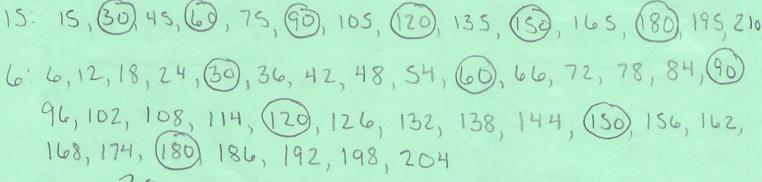
1.	Last summer, Karl went to the beac other at the beach?	h every 7 days. Antonia went to the	Management of the latest owner or the latest owner o		:h
	7: 7, 14, (21) 2 3: 3, 6, 9, 12, 15				
	Last summer, Karl and Antonia saw	each other at the beach every	21	_ days.	

2. String Lengths You have two pieces of string. One is 8 cm long. The other is 20 cm long. You want to cut each piece of string into smaller pieces of equal length. Each length is to be a whole number of centimeters. List all the possible lengths of the shorter pieces. What is the greatest common length from these two lists?





3. Winning Numbers A group of people are waiting in line for a movie premiere. Every 15th person in line will receive a free movie ticket. Every 6th person will receive a gift card for \$35. Which person is the first to win both prizes? If there are 200 people in line, how many people will receive both prizes?



The ______th person in line is the first person to win both prizes.

If there are 200 people in line, ______ people will receive both prizes.

Hint: Skip Count to 200 and see how many common multiples there are.