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FACTORS AND MULTIPLES

	 A number is of other numbers, called fa 	ctors.
FACTOP S	 For example, 2 · 3 = 6 andare factors of 	
	When a set of numbers has the same factor, it is called a factor. The largest factor that a set of numbers has in common.	is the

There are several methods to help find the greatest common factor.

VENN DIAGRAMS	Determine the fac into the Venn diag 15	tors of 15 and 60 usi ram below. 60	ng a factor tree. The	en, organize	e the prime factors
LADDED METHOD	Use the ladder me	thod to divide out the	e common prime fact	ors. Then, d	determine the GCF.
Use your understanding of greatest common factor to answer the questions below.					
1. Fi	nd the GCF of 24 a	nd 6.	2. Find the GCI	⁻ of 18,24,	and 60.

MULTIPLES	 A multiple of a number is the	of multiplying that
	 The least common multiple is the	common multiple a

List out the first ten multiples of each number. Then, determine the least common multiple.

3. 4 and 9	4. 3 and 7
4:	3:
q:	7:
LCM:	LCM:

Apply your understanding of factors and multiples to answer the questions below.

5. Amari and Ethan planned an end-of-season soccer party. They purchased 45 hot dogs and 30 individual bags of chips.

a. If each person will receive the same amount of food, what is the greatest number of people that they can feed without having any leftovers?

b. What will each person receive?

6. The Vasquez family visits their grandmother every 3 weeks and hosts a neighborhood party every 8 weeks. Every 16th week, the Vasquez family takes a day to go hiking.

a. After how many weeks will the Vasquez family both visit their grandmother and host the neighborhood party?

b. After how many weeks will all three events occur?

Summarize today's lesson:

CRISPO