1.5 Greatest Common Factor

	Essential Question: How	o can you find	the Greatest
	Common Fa	ctor of 2 number	63
	List all the factors of the fol	llowing numbers.	
	6 ->), 6	T , -3	>1,12 3,4 2,6
	Jhe numbe	rs 6 and 12 h	ave common
	factors of 1	,2,3,6. The GCF	is 6.
		-> Factors that are shared by tw	
	Greatest Common Factor (C	GCF-> The biggest	factor that
	is shared by 2	er more numbers	
	One way to find the GCF of	two or more numbers is by listing factor	ors.
	EVARADI E 1	3	
	EXAMPLE 1 Find the GCF of 24 and 40 b	by listing factors.	
	Factors of 2L	+ -> 1,24 2,12 (8)3 6,4 GCF is 8
			-
	tactors of 4	0 -> 1,40 8 5 2,20	4,10
	Another way to find the GC	CF of two or more numbers is by using	rime tactorization
	EXAMPLE 2		
	Find the GCF using prime fa		2) 40 172
	1) 12 and 56	2) 8 and 36	3) 18 and 72
	3 4 8 6	DH G G GCF	P8 P B 1150
	3 4 8 60 GCF=	33=4 83 63 CA	1.5=4 09 89
	9804	096360	330433
13 = (3)	9804	096360	330433
12=(2)	3 4 8 A GCF=	096360	330433
13 = (3)	9804	cls 30=3[5]·3·3	18 = 12, BB
13 = (3)	13/3 OD Cir	cls 30=3[5]·3·3	330433
13 = (3)	ON YOUR OWN Primes 1) 20 and 45	ele 36222.3.3 Factors 2) 32 and 90	18= 3.6.3.3/3/31
12 = (2)	ON YOUR OWN Prime	cle 36=3/21.3.3 Factors 2) 32 and 90	18= 12. B.
	ON YOUR OWN Primes 1) 20 and 45	2) 32 and 90 4 8 9 10 10 0 4 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CE-5 C(E=5.3.3=18 15=6-5-3393 18=5-6-6 39-6-6-33
	ON YOUR OWN Primes 1) 20 and 45	2) 32 and 90 4 8 9 10 10 0 4 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CE-5 C(E=5.3.3=18 15=6-5-3393 18=5-6-6 39-6-6-33
	ON YOUR OWN Primes 1) 20 and 45	2) 32 and 90 4 8 9 10 10 0 4 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CE-5 C(E=5.3.3=18 15=6-5-3393 18=5-6-6 39-6-6-33
	ON YOUR OWN Primes 1) 20 and 45 4 3 9 6	2) 32 and 90 4 8 9 10 10 0 4 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CE-5 C(E=5.3.3=18 15=6-5-3393 18=5-6-6 39-6-6-33

