

Name:	CI	
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## **Greatest common factor**

	s of the numbers below.
Example: Find the greatest comm	non factor of 72 and 24.
. Find the prime factors of each numbe	r 2. Find and circle the prime factors that the numbers have in commom
72 = 2 x 2 x 2 x 3 x 3	$72 = 2 \times 2 \times 2 \times 3 \times 3$
24 = 2 x 2 x 2 x 3	$24 = 2 \times 2 \times 2 \times 3$
	umbers can be found by multiplying their $2 \times 2 \times 3 = 24$ So, the GCF of 72 and 24 is 24.
The GCF of 18 and 90 is	The GCF of 14, 98 and 35 is
The GCF of 54 and 16 is	The GCF of 19, 38 and 95 is
The GCF of 45 and 5 is	The GCF of 10, 75 and 100 is
The GCF of 30 and 40 is	The GCF of 26, 78 and 52 is



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Find the greatest of	ommon factors c	of the numbers	below.
Example : Find the	greatest commo	n factor of 72	and 24.
1. Find the prime facto	rs of each number		cle the prime factors that
			s have in commom
$72 = 2 \times 2 \times 2 \times 3 \times 3$		$72 = 2 \times 2 \times 2$	
24 = 2 x 2 x 2 x 3		$24 = 2 \times 2 \times 2$	x3
3. The greatest commo	on factor of the num	bers can be four	nd by multiplying their
common prime fact	ors together. 2 x 2 x	$2 \times 3 = 24$ So, t	he GCF of 72 and 24 is <mark>24</mark> .
The GCF of 18 and 9	90 is	The GCE of	of 14, 98 and 35 is
18 = 2 x		THE GEL C	$14 = 2 \times \frac{7}{}$
10	$\langle 3 \times 3 \times 5 \rangle$	7	98 = 2 × 7 × 7
30 = 2			35 = 5 x 7
			55 5 7
The GCF of 54 and	16 is	The GCF o	of 19, 38 and 95 is
	(3 × 3 × 3		19 = 19
	2 x 2 x 2	19	38 = 2 x 19
			95 = 5 x 19
The GCF of 45 and	5 is	The GCF of	of 10, 75 and 100 is
45 = 3 >	3 x 5		10 = 2 x <b>5</b>
5 5 = 5		5	75 = 5 x 5 x <mark>5</mark>
			100 = 2 x 2 x 5 x 5
The GCF of 30 and	40 is	The GCF o	of 26, 78 and 52 is
30 = 2			26 = 2 × 13
10	×2×2×5	26	78 = 2 × 3 × 13
			52 = 2 × 2 × 13