\equiv





Q Course

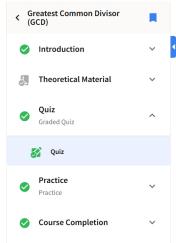
Progress

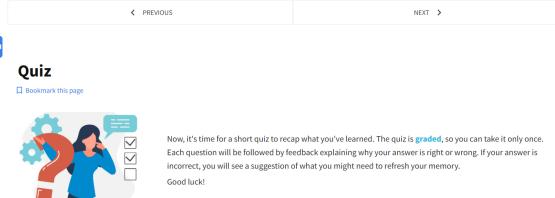
Course is completed. The course result can no longer be changed.

⋒ Greatest Common Divisor (GCD)

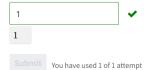


Home / Course / Greatest Common Divisor (GCD) / Quiz





Read the question below and enter an answer. Then, click "Submit." What is the $\gcd{(115,34)}$?



Read the question below and enter an answer. Then, click "Submit." What is the $\gcd{(15,75)}$?



Read the question below and select **all** the answers that are correct. Then, click "Submit." Let $a \neq 0$ and $b \neq 0$. Which THREE of the following statements are correct?



Read the question below and select **all** the answers that are correct. Then, click "Submit." Which TWO of the following statements are correct?

	$orall k > 0: k \mid ab \& gcd (a,k) = 1 ightarrow k \mid b$
	$gcd\left(an,bn ight) eq n \ gcd\left(a,b ight)$
	$gcd\left(a,gcd\left(b,c ight) ight) eq gcd\left(gcd\left(a,b ight),c ight)$
~	
Corre	ct: Great job!
	You have used 1 of 1 attempt
Dand	the question below and select the correct answer. Then, click "Submit."
	$b \ge 0$. What is the time complexity of Euclid's algorithm?
	$O\left(b ight)$
	$O\left(\log\log a ight)$
	$O\left(a ight)$
	$O\left(\log b ight)$
Corre	et, Nice ichl
	ct: Nice job!
	You have used 1 of 1 attempt
Read	the question below and enter an answer. Then, click "Submit."
	is the least common multiple of 15 and 9?
45	•
45	
	You have used 1 of 1 attempt
Read	the question below and select the correct answer. Then, click "Submit."
	t_1 the surfact and t_2 between t_1 and t_2 t_3
	is the relationship between $lcm\left(a,b ight)$ and $gcd\left(a,b ight)$?
	is the relationship between $lcm\left(a,b ight)$ and $gcd\left(a,b ight)$? $lcm\left(a,b ight) = gcd^{2}\left(a,b ight)/\left(a*b ight)$
What	$lcm\left(a,b ight)=gcd^{2}\left(a,b ight)/\left(a*b ight)$
What	$lcm\left(a,b ight) =gcd^{2}\left(a,b ight) /\left(ast b ight)$
What	$lcm\left(a,b ight)=gcd^{2}\left(a,b ight)/\left(ast b ight)$ $lcm\left(a,b ight)=ast bst gcd\left(a,b ight)$
What	$lcm(a,b) = gcd^{2}(a,b) / (a*b)$ $lcm(a,b) = a*b*gcd(a,b)$ $lcm(a,b) = a*b/gcd(a,b)$
What	$lcm(a,b) = gcd^{2}(a,b) / (a*b)$ $lcm(a,b) = a*b*gcd(a,b)$ $lcm(a,b) = a*b/gcd(a,b)$
What	$lcm(a,b) = gcd^{2}(a,b) / (a*b)$ $lcm(a,b) = a*b*gcd(a,b)$ $lcm(a,b) = a*b/gcd(a,b)$ $lcm(a,b) = a*b/gcd^{2}(a,b)$
What	$lcm\left(a,b\right)=gcd^{2}\left(a,b\right)/\left(a*b\right)$ $lcm\left(a,b\right)=a*b*gcd\left(a,b\right)$ $lcm\left(a,b\right)=a*b/gcd\left(a,b\right)$ $lcm\left(a,b\right)=a*b/gcd^{2}\left(a,b\right)$ ct: Nice job!
What Corre	$lcm\left(a,b\right)=gcd^{2}\left(a,b\right)/\left(a*b\right)$ $lcm\left(a,b\right)=a*b*gcd\left(a,b\right)$ $lcm\left(a,b\right)=a*b/gcd\left(a,b\right)$ $lcm\left(a,b\right)=a*b/gcd^{2}\left(a,b\right)$ ct: Nice job!
what Correct Sub	$lcm\left(a,b\right)=gcd^{2}\left(a,b\right)/\left(a*b\right)$ $lcm\left(a,b\right)=a*b*gcd\left(a,b\right)$ $lcm\left(a,b\right)=a*b/gcd\left(a,b\right)$ $lcm\left(a,b\right)=a*b/gcd^{2}\left(a,b\right)$ ct: Nice job!
what Corre	$lcm\left(a,b\right)=gcd^{2}\left(a,b\right)/\left(a*b\right)$ $lcm\left(a,b\right)=a*b*gcd\left(a,b\right)$ $lcm\left(a,b\right)=a*b/gcd\left(a,b\right)$ $lcm\left(a,b\right)=a*b/gcd^{2}\left(a,b\right)$ ct: Nice job! mit You have used 1 of 1 attempt
what Corre	$lcm\left(a,b\right) = gcd^{2}\left(a,b\right)/\left(a*b\right)$ $lcm\left(a,b\right) = a*b*gcd\left(a,b\right)$ $lcm\left(a,b\right) = a*b/gcd^{2}\left(a,b\right)$ $lcm\left(a,b\right) = a*b/gcd^{2}\left(a,b\right)$ $ct: \ \text{Nice job!}$ $\text{mit} \ \ \text{You have used 1 of 1 attempt}$ $the \ question \ below \ and \ select \ the \ correct \ answer. \ Then, \ click \ "Submit."} > b \geq 0. \ \text{What is the time complexity of the extended Euclidean algorithm?}$ $O\left(\log b\right)$
what Correct Sub	$lcm\left(a,b\right) = gcd^{2}\left(a,b\right)/\left(a*b\right)$ $lcm\left(a,b\right) = a*b*gcd\left(a,b\right)$ $lcm\left(a,b\right) = a*b/gcd^{2}\left(a,b\right)$ $ct: \ \text{Nice job!}$ $mit \text{You have used 1 of 1 attempt}$ $the \ question \ below \ and \ select \ the \ correct \ answer. \ Then, \ click \ "Submit."} > b \geq 0. \ \text{What is the time complexity of the extended Euclidean algorithm?}$ $O\left(\log b\right)$ $O\left(b^{2}\right)$
what Corre	$lcm\left(a,b\right) = gcd^{2}\left(a,b\right)/\left(a*b\right)$ $lcm\left(a,b\right) = a*b*gcd\left(a,b\right)$ $lcm\left(a,b\right) = a*b/gcd^{2}\left(a,b\right)$ $lcm\left(a,b\right) = a*b/gcd^{2}\left(a,b\right)$ $ct: \ \text{Nice job!}$ $\text{mit} \ \ \text{You have used 1 of 1 attempt}$ $the \ question \ below \ and \ select \ the \ correct \ answer. \ Then, \ click \ "Submit."} > b \geq 0. \ \text{What is the time complexity of the extended Euclidean algorithm?}$ $O\left(\log b\right)$

Submit You have used 1 of 1 attempt

✓ PREVIOUS
NEXT >

© All Rights Reserved