

Student: [REDACTED]  
Date: [REDACTED]  
Time: [REDACTED]

Instructor: [REDACTED]  
Field: [REDACTED]  
Course: MAT1301-14A-1A16-S2  
Book: Pirnot: Mathematics All Around,  
5e

Assignment: [REDACTED]

12. Find the GCD and LCM of the following pair of natural numbers.

297, 165

The GCD of 297 and 165 is . (Type a whole number.)

The LCM of 297 and 165 is . (Type a whole number.)

13. Find the GCD and LCM of the following pair of natural numbers.

45; 1,875

The GCD of 45 and 1,875 is . (Type a whole number.)

The LCM of 45 and 1,875 is . (Type a whole number.)

14. When the GCD and the LCM of two natural numbers  $a$  and  $b$  are multiplied, the product is the same as the product  $a \cdot b$ . For the numbers below, first find the GCD and then divide the GCD into the product of the two numbers to find the LCM. To find the GCD, use the Euclidean algorithm.

150, 480

The GCD of 150 and 480 is . (Type a whole number.)

The LCM of 150 and 480 is . (Type a whole number.)

15. A new vintage 1965 convertible requires an oil change every 400 miles and replacement of all fluids every 19,000 miles. If these services have just been performed by the dealer, how many miles from now will both be due at the same time?

The services will both be due at the same time again in  miles.  
(Type a whole number.)

16. Two people are jogging around a circular track in the same direction. One person can go completely around the track in 22 minutes. The second person takes 28 minutes. If they both start running in the same place at the same time, how long will it take them to be together at this place if they continue to run?

They will be together again after  minutes.