Name Date

Practice A

1.6

Find the least common multiple of the numbers.

 1. 2, 3 2. 4, 10

 3. 3, 5 4. 7, 8 5. 4, 6

 6. The snooze button on your alarm clock activates the alarm every 5 minutes. The snooze button on your cell phone activates the alarm every 7 minutes. Both alarms activate at 7:00 a.m. You hit each snooze button as each alarm activates. At what time are both alarms activated again?

Find the LCM of the numbers using prime factorizations.

 10. 10, 12 11. 18, 30 12. 26, 39

16. Describe and correct the error in finding the LCM.





 17. You have piano lessons every 7 days and tuba lessons every 3 days. Today you have both lessons.

 a. In how many days will you have both lessons on the same day again?

 b. Not counting today or the day when you have the same lesson again, how many piano lessons will you have in between? How many tuba lessons will you have in between?

Name Date

Practice B

1.6

Find the LCM of the numbers using lists of multiples.

 1. 9, 11 2. 6, 21 3. 15, 18

Find the LCM of the numbers using prime factorizations.

 10. 12, 34 11. 10, 46 12. 21, 36

 13. You run one lap around a mile track every 8 minutes. Your friend runs around the same track every 10 minutes. You both start at the starting line at the same time.

 a. How far have each of you run when you first meet again at the starting line?

 b. How far have each of you run the next time you meet at the starting line?

Find the LCM of the numbers.

 14. 3, 7, 13 15. 5, 9, 12 16. 8, 14, 21

 17. Plastic plates come in packs of 8, plastic utensils come in packs of 12, and plastic cups come in packs of 20. What are the least numbers of packs you should buy in order to have the same number of plates, utensils, and cups?

Tell whether the statement is *always*, *sometimes*, or *never* true.

 18. The GCF of two different numbers is greater than the LCM of the numbers.

 19. The LCM of a prime number and a composite number is a multiple of the prime number.

 20. A theater gives away one free ticket to every 10th customer and two free tickets to every 25th customer. The manager wants to give away four free tickets when the customer is both a 10th and a 25th customer.

 a. Who is the first customer that will receive four free tickets?

 b. If 120 customers have bought tickets today, how many free tickets has the manager given away?