

Lesson 4 ~ Least Common Multiple

Name _____ Period _____ Date _____

List the first five non-zero multiples for each number.

1. 5

2. 8

3. 12

Use a list or prime factorization to find the least common multiple (LCM) of each pair of numbers.

4. 3 and 5

5. 6 and 8

6. 3 and 4

7. 8 and 10

8. 12 and 16

9. 10 and 12

10. 9 and 15

11. 12 and 15

12. 12, 24 and 36

Solve the problems.

13. Karen washes light clothes every five days. She washes dark clothes every six days. If she washed both light and dark clothes today, how many days until she once again washes both light and dark clothes on the same day?

14. Josh visits his parents every eight days. He visits his brother every twelve days. If he visited his parents and his brother today, how many days until Josh visits both his parents and his brother again on the same day?

Find the least common denominator (LCD) of each pair of fractions.

15. $\frac{4}{9}, \frac{3}{6}$

16. $\frac{3}{5}, \frac{3}{4}$

17. $\frac{1}{3}, \frac{2}{7}$

18. $\frac{3}{6}, \frac{8}{12}$

19. $\frac{8}{10}, \frac{7}{15}$

20. $\frac{4}{21}, \frac{10}{14}$