

Reteaching 4-7

Least Common Multiple

Find the *least common multiple (LCM)* of 8 and 12.

- ① Begin listing multiples of each number.

8: 8, 16, 24, 32, 40

12: 12, 24

- ② Continue the lists until you find the first multiple that is common to both lists. That is the LCM.

The least common multiple of 8 and 12 is 24.

List multiples to find the LCM of each pair of numbers.

1. 4: _____

2. 6: _____

5: _____

7: _____

LCM: _____

LCM: _____

3. 9: _____

4. 10: _____

15: _____

25: _____

LCM: _____

LCM: _____

5. 8: _____

6. 8: _____

24: _____

12: _____

LCM: _____

LCM: _____

7. 4: _____

8. 15: _____

7: _____

25: _____

LCM: _____

LCM: _____

Use prime factorization to find the LCM of each set of numbers.

9. 9, 21 _____

10. 6, 8 _____

11. 18, 24 _____

12. 40, 50 _____

Guided Problem Solving Two ships sail between New York and London. One makes the round trip in 12 days. The other takes 16 days. They both leave London today. In how many days will both ships leave London together again?