

Lesson 6-12 • Group 2

Reinforce Understanding

6.12 Small Group • Group 2

I can find the least common multiple (LCM) of two numbers by listing or comparing their multiples, explain why the method works, and use it on a problem I have not seen before.

Worked model

I want the LCM of 4 and 6. I skip count the multiples of 4: 4, 8, 12, 16, 20, 24.

1. Then I skip count the multiples of 6: 6, 12, 18, 24.
2. I look for the first number in BOTH lists. 12 is in both lists, and it comes before 24.
3. So the LCM of 4 and 6 is 12. I check: $12 \div 4 = 3$ and $12 \div 6 = 2$, so both go into 12 evenly.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Match each pair of numbers to their LCM.

Write the letter of the matching item on each line.

1. _____ LCM(2, 5)
2. _____ LCM(4, 10)
3. _____ LCM(3, 8)
4. _____ LCM(6, 9)
5. _____ LCM(5, 7)
6. _____ LCM(4, 6)

- A10
- B20
- C24
- D18
- E35
- F12

2. List multiples of each number until you find the LCM.

Complete the table. Show how you found each value.

Numbers	Multiples of First	Multiples of Second	LCM
6 and 10			
8 and 12			
9 and 12			

Show your work
