Least Common Multiple

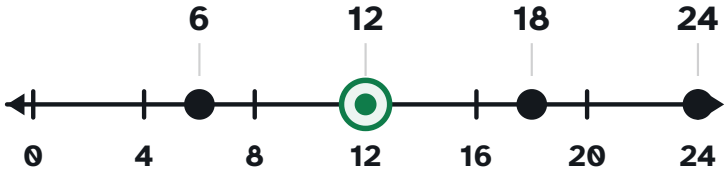
Find the least common multiple: the smallest number that two numbers both go into.

Name _____ **Date** _____

Tonight's spark

The rec center has swim class every 4 days and art club every 6 days. Both are today. When will both fall on the same day again?

Guess first: will it happen before day 10, or after?



Ticks: multiples of 4. Dots: multiples of 6.

Our class model: two skip-count lists

Try it

Work it out on paper. Write one answer on each line.

1. **Which list shows the first four multiples of 6?**

   A. 1, 2, 3, 6 **B.** 6, 12, 18, 24 **C.** 12, 18, 24, 30

   My answer _____

2. **Which number is a common multiple of 3 and 4?**

   A. 12 **B.** 9 **C.** 7 **D.** 2

   My answer _____

3. **What is the LCM of 2 and 5?**

   A. 7 **B.** 20 **C.** 1 **D.** 10

   My answer _____

4 **What is the LCM of 6 and 9?**

A. 54 **B.** 3 **C.** 18 **D.** 36

My answer _____

5 **What is the LCM of 4 and 12?**

A. 48 **B.** 12 **C.** 4 **D.** 24

My answer _____

6 **One bus returns to the station every 6 minutes and another every 8 minutes. They are both there now. In how many minutes will they next be there together?**

A. 24 **B.** 48 **C.** 14 **D.** 2

My answer _____

Talk about it

Is there a smaller number that both 4 and 6 go into?

Home mission

Count by 4s out loud while your student counts by 6s. Stop at the first number you both say. Which number is it?

If we get stuck, ask

- Let's count by each number out loud and write the lists down.
- What is the first number that shows up in both lists?
- Does each number divide evenly into your answer? Let's check.

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/6-12/homework.html

How did it feel? (optional)

Tricky Getting there Got it