

MY Homework

Lesson 5

Least Common Multiple

Homework Helper



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Ben's Burgers gives away a free order of fries every 2 days, a free milkshake every 3 days, and a free hamburger every 4 days. If they gave away all three items today, in how many days will they give away all three items again?

Find and circle the LCM of 2, 3 and 4 by listing nonzero multiples of each number.

2: 2, 4, 6, 8, 10, **12** . . .

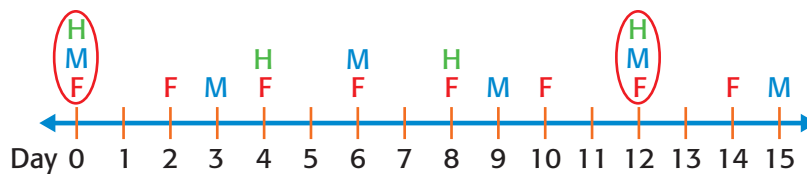
3: 3, 6, 9, **12**, 15 . . .

4: 4, 8, **12**, 16, 20 . . .

The least common multiple of 2, 3, and 4 is 12.

So, Ben's Burgers will give away all three items again in 12 days.

Check The number line shows on which days all three activities will be completed.



H = hamburger
M = milkshake
F = fries

Practice

Find the LCM of each set of numbers.

1. 7, 14 _____

2. 6, 15 _____

3. 5, 9, 15 _____



Problem Solving

4. The cycles for two different events are shown in the table. Each of these events happened in the year 2000. What is the next year in which both will happen?

Event	Cycle (yr)
Summer Olympics	4
United States Census	10

5. **Mathematical PRACTICE E** **Draw a Conclusion** Is the statement below *always*, *sometimes*, or *never* true? Give at least two examples to support your reasoning. The LCM of two numbers is the product of the two numbers.

Vocabulary Check



Fill in each blank with the correct word(s) to complete each sentence.

6. Multiples that are shared by two or more numbers are _____.
7. The least common multiple (LCM) is the _____ multiple, other than 0, common to sets of multiples.

Test Practice

8. Micah is buying items for a birthday party. If he wants to have the same amount of each item, what is the least number of packages of cups he needs to buy?

Party Supplies	
Item	Number in Each Package
Cups	6
Plates	8

- (A) 2 packages (C) 4 packages
(B) 3 packages (D) 5 packages