

Objective: To find the Least Common Multiple (LCM) of two numbers

In real life, multiples happen repeatedly



Least Common Multiple

Multiple – the product of the number and any nonzero whole number

Common Multiple – a multiple shared by two or more numbers

Least Common Multiple (LCM) – the smallest common multiple of two or more numbers



List the Multiples

Step 1: List the multiples of each number

Step 2: Compare the lists and determine which common multiple is the smallest

Examples: Find the common multiples that are less than 50 and identify the LCM:

1) 4 & 6

4: 4, 8, (2) 16, 20, (24), 28, 32, (36), 40, 44, (48) 6: 6, (12), 18, (24), 30, (36), 42, (48)



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2) 4, 5, 8

4: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48

5: 5,10,15, 20, 25, 30, 35,40, 45

8: 8,16,24,32,40,48



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LCM = 40



3) Ari goes to the gym every 4 days and Sophia goes to the gym every 6 days. They both exercised today. How many days from today will be the next day they exercise together?

4: 4, 8, (2) 16, 20, 24, 28, 32, 36, 40, 44, 48 6: 6, (12) 18, (24), 30, (36), 42, (48)

LCM = 12

Ari and Sophia will both exercise at the gym in 12 days.