

Least Common Multiple and Greatest Common Factor

 Bell Work
Math 6

1. Complete the following statements.

- Listing method and prime factorization are the methods used to find the _____ and _____ of two or more numbers.
- A _____ is a tool that breaks down the number into its _____.

2. Which of the following statements is correct?

- The greatest common factor (GCF) of two or more numbers is the greatest number that is a factor of all of the numbers.
- The least common multiple of two or more numbers is the least number, except 0, that is a common multiple of both (or all) of the numbers.

Multiple Choices

3. Solve for x to complete the prime factorization. $2 \times 2 \times x = 20$

- 4
- 3
- 5
- 10

4. Find the prime factorization for 144.

- $2 \times 2 \times 2 \times 3 \times 3$
- $2 \times 2 \times 2 \times 2 \times 3 \times 3$
- $2 \times 2 \times 2 \times 2 \times 3$
- $2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3$

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5. The greatest common factor of 16 and 24 is:

- a. 8
- b. 32
- c. 16
- d. 28