

Grade 6 Math  
**Quiz Study Guide**

Below is a list of topics that will be covered on the **upcoming quiz**:

- s • Know the following vocabulary words:
  - **Prime Number**
  - **Composite Number**
  - **Factor**
  - **Prime Factorization**
  - **Factor Tree**
  - **Greatest Common Factor (GCF)**
  - **Multiple**
  - **Lowest Common Multiple (LCM)**
  - **Order of Operations**
- Identify Prime and Composite Numbers
  - *Ex: 17 is a Prime Number because its factors are only 1 and itself*
  - *Ex: 6 is a Composite Number because it has more than 2 factors (1, 2, 3, 6)*
- Find the factors for a variety of numbers
  - *Ex: The factors of 20 are: 1, 2, 4, 5, 10, 20*
- Complete the prime factorization for a variety of numbers
  - *Ex: The prime factorization of 8 is:  $2 \times 2 \times 2$*
- Construct factor trees
- Find the Greatest Common Factor between 2 numbers
  - *Ex: Find the GCF of 6 and 8*
  - *Factors of 6: 1, **2**, 3, 6*
  - *Factors of 8: 1, **2**, 4, 8*
  - *The GCF is 2*
- Find the Lowest Common Multiple between 2 numbers
  - *Ex: Find the LCM of 4 and 5*
  - *Multiples of 4: 4, 8, 12, 16, **20**, 24...*
  - *Multiples of 5: 5, 10, 15, **20**, 25...*
  - *The LCM is 20*
- Use Order of Operations to solve expressions that include a variety of operations - use "BEDMAS" (Brackets, Exponents, Division, Multiplication, Addition, Subtraction)
  - Solve:  $3 + 24 \div 2 - (6 \times 2)$ 
    - =  $3 + 24 \div 2 - 12$
    - =  $3 + 12 - 12$
    - =  $15 - 12$
    - = 3

**Days for Extra Help:** \_\_\_\_\_

**Extra Textbook Pages:** \_\_\_\_\_

**Quiz Date:** \_\_\_\_\_

Use the following chart to help you remember to study. **Have your parents sign each time you study.** You **must** return this on the day of your quiz. You are **not** expected to study every single day – this is just to let your teacher know how much you are studying

|                                    |  |  |  |  |  |  |  |
|------------------------------------|--|--|--|--|--|--|--|
|                                    |  |  |  |  |  |  |  |
| <b>How long did you study for?</b> |  |  |  |  |  |  |  |
| <b>Parents Signature</b>           |  |  |  |  |  |  |  |