

8th grade Ohio Mathematics Benchmarks “Batter Up”

Mathematics

Number, Number Sense and Operations

4. Explain and use the inverse and identity properties and use inverse relationships in problem solving situations.
5. Determine when an estimate is sufficient and when an exact answer is needed in problem situations, and evaluate estimates in relation to actual answers.
6. Estimate, compute and solve problems involving rational numbers including ratio, proportion and percent, and judge the reasonableness of solutions.

Patterns, Functions and Algebra

5. Use physical models to add and subtract monomials and polynomials, and to multiply a polynomial by a monomial.
7. Use symbolic algebra, graphs and tables to represent situations and solve problems.
8. Write, simplify and evaluate algebraic expressions to generalize situations and solve problems.

Mathematical Processes Benchmarks

- A. Formulate a problem or mathematical model in response to a specific need or situation, determine information required to solve the problem, choose method for obtaining this information and set limits for acceptable solution.
- B. Apply mathematical knowledge and skills routinely in other content areas and practical situations.
- E. Use a variety of mathematical representations flexibly and appropriately to organize, record and communicate mathematical ideas.
- F. Use precise mathematical language and notations to represent problem situations and mathematical ideas.
- H. Locate and interpret mathematical information accurately, and communicate ideas, processes and solutions in a complete and easily understood manner.