

6th Grade Math Standards

Math Essential Standards:

Benchmark 1:

1. **6.M.NS.B.03:** The Highly Proficient student can fluently add, subtract, multiply and divide multi-digit numbers including multi-digit decimals using the standard algorithm for each operation and assesses the reasonableness of the result. - **5 Days**
2. **6.M.NS.B.02:** The Highly Proficient student can fluently divide multi-digit numbers including multi-digit decimals using the standard algorithm and assesses the reasonableness of the result. - **5 Days**
3. **6.M.NS.B.04:** The Highly Proficient student can interpret a context to construct an equivalent expression using the greatest common factor, least common multiple, and the distributive property. - **5 Days**
4. **6.M.NS.C.09:** The Highly Proficient student can convert between expressions for positive rational numbers including fractions, decimals, and percents in real-world problems. - **5 Days**
5. **6.M.RP.A.01:** The Highly Proficient student can use and connect between representations for ratio situations. - **5 Days**
6. **6.M.RP.A.02:** The Highly Proficient student can find unit rates requiring multiple steps. - **5 Days**
7. **6.M.RP.A.03:** The Highly Proficient student can create and apply ratio reasoning to solve real-world problems including those involving percent or conversion of measurement units. - **5 Days**
8. **6.M.NS.A.01:** The Highly Proficient student can solve a problem in context involving multi-step division problems involving mixed numbers and interprets the solution in context. - **5 Days**

Benchmark 2:

1. **6.M.NS.C.05:** The Highly Proficient student can identify and interpret rational numbers given a real-world problem. - **5 Days**
2. **6.M.NS.C.06ac:** The Highly Proficient student can plot rational points on a coordinate plane and on a horizontal or vertical number line. - **5 Days**
3. **6.M.EE.A.01:** The Highly Proficient student can evaluate and create expressions using whole number exponents and positive rational number bases. - **5 Days**
4. **6.M.EE.A.02abc:** The Highly Proficient student can identify parts of an expression and evaluate and create algebraic expressions involving rational numbers for real-world problems. - **5 Days**
5. **6.M.EE.B.05:** The Highly Proficient student can solve an equation or inequality to choose or create a set of values that make the equation or inequality true. - **5 Days**
6. **6.M.EE.B.07:** The Highly Proficient student can create and solve a one-step equation to represent a real-world problem. - **5 Days**
7. **6.M.EE.B.08:** The Highly Proficient student can create, solve, and graph inequalities to represent constraints in a real-world problem. - **5 Days**

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8. **6.M.NS.C.07**: The Highly Proficient student can compare and order rational numbers including integers and absolute values given in real-world problems. - **5 Days**
9. **6.M.EE.A.04**: The Highly Proficient student can identify equivalent expressions and show that two expressions are equivalent by substitution. - **5 Days**

Benchmark 3:

1. **6.M.EE.C.09**: The Highly Proficient student can create a real world context using dependent and independent variables by constructing a table, graph, or equation. - **5 Days**
2. **6.M.G.A.03**: The Highly Proficient student can find a missing vertex of a polygon given other vertices. - **5 Days**
3. **6.M.NS.C.08**: The Highly Proficient student can use absolute value to find the distance between two points with the same first or second coordinate in real-world problems. - **5 Days**
4. **6.M.NS.C.06b**: The Highly Proficient student can recognize in real-world problems that when two ordered pairs differ only by sign then the locations are related to reflections over one or both axes. - **5 Days**
5. **6.M.G.A.01**: The Highly Proficient student can solve real world multistep geometric problems including decimal and fractional measurements. - **5 Days**
6. **6.M.G.A.04**: The Highly Proficient student can solve real world problems by finding surface area for three dimensional figures using nets with fractional edges. - **5 Days**
7. **6.M.G.A.02**: The Highly Proficient student can find the missing side length of a right rectangular prism given a volume and fractional side lengths. - **5 Days**
8. **6.M.SP.A.01.02.03**: The Highly Proficient student can create a statistical question given a context and create a data set with given measure of center, spread, and overall shape and determines how additional data points impact the measure of center, spread, and overall shape. - **10 Days**

Benchmark 4:

1. **6.M.RP.A.03**: The Highly Proficient student can create and apply ratio reasoning to solve real-world problems including those involving percent or conversion of measurement units. - **5 Days**
2. **6.M.SP.B.04**: The Highly Proficient student can create a histogram or box plot given a dot plot. - **5 Days**
3. **6.M.SP.B.05**: The Highly Proficient student can summarize numerical data sets in relation to their context and create a data set given a display. - **10 Days**

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Math Yearly Standards:

★ None

Math Additional Standards:

1. **6.M.EE.A.03:** Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$. **(Month 4)**
2. **6.M.EE.B.06:** Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set. **(Month 5)**