

## 4<sup>th</sup> Grade Math Benchmark Testing

Benchmark tests are correlated with the Harrison County Math Curriculum mapping which can be found at <http://wvschools.com/harrisoncounty>  
The math curriculum maps provide math grade level CSOs and also provide lists of resources in Investigations math, Scott Foresman math, Performance Assessments, and Suggested Technology Resources for each CSO.

Math benchmark tests are located in the Odyssey at <http://irc.harr.k12.wv.us/childu/index.html>

### Math Benchmark 1 – To be given October 27 – November 14

In Odyssey under: *Math Benchmark 1 Fourth Grade/LP*

**M.O.4.1.3:** Estimate solution to problems/evaluate reasonableness of solution, justify results

**M.O.4.1.1:** Read/write/compare numbers to millions/decimals to thousandths

**M.O.4.1.9:** Quick recall of basic multiplication facts/division facts

**M.O.4.1.2:** Demonstrate place value of digit using standard/expanded form through 1,000,000

**M.O.4.2.1:** Determine rule/explain how change in variables relates to change in second variable, given input/output model with two operations

**M.O.4.4.3:** Read time to minute/calculate elapsed time in hours/minutes within a 24-hour period

**M.O.4.2.3:** Write expression using variable to describe real-world situation, represent variable of an unknown quantity using a letter

### Math Benchmark 2 – To be given January 12 – January 30

In Odyssey under: *Math Benchmark 2 Fourth Grade/LP*

**M.O.4.2.4:** Solve real-world problems involving order of operations, grouping symbols, and the four operations

**M.O.4.5.2:** Pose question answered with data/organize/display/analyze data in order to answer question

**M.O.4.2.2:** Recognize/describe relationships in which quantities change proportionally

**M.O.4.1.10:** Create real-world appropriate story problems / justify strategy/ and present results

**M.O.4.1.7:** Add/subtract numbers to 5-digits/decimals to 1000th place/multiply up to 3-digits by 2-digits/ divide to 3-digit with 1 and 2 digit divisor

**M.O.4.4.4:** Given real-world situations/count coins/bills/determine correct change

**M.O.4.1.8:** Solve multi-digit whole number multiplication problems

**Math Benchmark 3 – To be given March 23 – April 10**

**In Odyssey under: *Math Benchmark 3 Fourth Grade/LP***

**M.O.4.4.1:** Select measuring tools, convert units to estimate/ measure/ compare & order real world measurement.

**M.O.4.3.1:** Identify/classify/compare/contrast two/three-dimensional shapes/figures according to attributes.

**M.O.4.3.6:** Draw/identify parts of circle: center point/diameter & radius.

**M.O.4.3.4:** Identify/create two-dimensional design with one line of symmetry.

**M.O.4.3.7:** Select/analyze/justify use of transformations (translations, rotations, flips) to solve geometric problems including congruency & tiling. (tessalations)

**M.O.4.1.6:** Round decimals to the nearest whole/10th/100th place.

**M.O.4.3.3:** Identify/draw/label/compare/classify lines (intersecting/parallel/perpendicular) & angles (acute/right/obtuse & straight).

**M.O.4.1.5:** Analyze relationship of fractions to decimals using concrete objects & pictorial representations.

**M.O.4.4.2:** Demonstrate understanding of formula used to determine area of rectangle using area model representing multiplication.

**M.O.4.3.2:** Recognize/describe three-dimensional objects from different perspectives.