Wisconsin Mathematics

Essential Elements: Grade 5

Operations and Algebraic Thinking 5.OA

A Write and interpret numerical expressions. M.5.OA.A

1 Not applicable.

2 Not applicable.

B Analyze patterns and relationships. M.5.OA.B

3 Identify and extend numerical patterns. M.EE.5.OA.3

Number and Operations in Base Ten 5.NBT

A Understand the place value system. M.5.NBT.A

1 Compare numbers up to 99 using place value models. M.EE.5.NBT.1

2 Use the number of zeros in numbers that are powers of 10 to determine which values are equal, greater than, or less than another number. M.EE.5.NBT.2

3 Compare whole numbers up to 100 using symbols (<, >, =). M.EE.5.NBT.3

4 Use place value understanding to generate estimates for real world addition and subtraction problem situations within 100, using strategies such as mental math, benchmark numbers, compatible numbers, and rounding. M.EE.5.NBT.4

B Perform operations with multidigit whole numbers and with decimals to hundredths. M.5.NBT.B

5 Use the meaning of multiplication to develop and understand strategies to find products with multiples of 0, 1, 2, 5, and 10 within 100. M.EE.5.NBT.5

6 Illustrate the concept of division using fair and equal shares. M.EE.5.NBT.6

7 Identify models of tenths (1/10, 2/10, 3/10, 4/10, 5/10, 6/10, 7/10, 8/10, 9/10, 10/10). M.EE.5.NBT.7

Number and Operations – Fractions 5.NF

A Use equivalent fractions as a strategy to add and subtract fractions. M.5.NF.A

1 Identify models of halves (½, 2/2), thirds (⅓, ⅔, 3/3), and fourths (¼, 2/4, ¾, 4/4). M.EE.5.NF.1

2 Not applicable.

B **Apply and extend previous understandings of multiplication and division to multiply and divide fractions.** M.5.NF.B

3 Not applicable. SeeM.EE.6.RP.1.

4 Not applicable.

5 Not applicable.

6 Not applicable. See M.EE.N.CN.2b.

7 Not applicable. See M.EE.7.NS.2b.

Measurement and Data 5.MD

A **Convert like measurement units within a given measurement system.** M.5.MD.A

1 Extend understanding of measurement concepts. M.EE.5.MD.1

a Tell time using an analog or digital clock to the half or quarter hour. M.EE.5.MD.1.A

b Use standard units to measure weight and length of objects. M.EE.5.MD.1.B

c Indicate relative value of collections of coins. M.EE.5.MD.1.C

B **Represent and interpret data.** M.5.MD.B

2 Represent and interpret data on a picture graph, line plot, or bar graph. M.EE.5.MD.2

C **Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.** M.5.MD.C

3 Identify common three-dimensional shapes. M.EE.5.MD.3

4 Determine the volume of a rectangular prism by counting units of measure (unit cubes). M.EE.5.MD.4

5 Determine the volume of a rectangular prism by counting units of measure (unit cubes). M.EE.5.MD.5

Geometry 5.G

A **Graph points on the coordinate plane to solve real world and mathematical problems.** M.5.G.A

1 Sort two-dimensional figures and identify the attributes, including number of angles, sides, or corners that they have in common. M.EE.5.G.1

2 Sort two-dimensional figures and identify the attributes, including number of angles, sides, or corners that they have in common. M.EE.5.G.2

B **Classify two dimensional figures into categories based on their properties.** M.5.G.B

3 Sort two-dimensional figures and identify the attributes, including number of angles, sides, or corners that they have in common. M.EE.5.G.3

4 Sort two-dimensional figures and identify the attributes, including number of angles, sides, or corners that they have in common. M.EE.5.G.4