Wisconsin Mathematics

Essential Elements: Grade 4

Operations and Algebraic Thinking 4.OA

A Use the four operations with whole numbers to solve problems. M.4.OA.A

1 Demonstrate the connection between repeated addition and multiplication. M.EE.4.OA.1

2 Demonstrate the connection between repeated addition and multiplication. M.EE.4.OA.2

3 Solve one-step real-world problems using addition or subtraction within 100. M.EE.4.OA.3

B Gain familiarity with factors and multiples. M.4.OA.B

4 Use an understanding of multiplication to show at least one way to determine a product. M.EE.4.OA.4

C Generate and analyze patterns. M.4.OA.C

5 Use repeating patterns to make predictions. M.EE.4.OA.5

D Multiply and divide within100. M.4.OA.D

6 Not applicable.

Number and Operations in Base Ten 4.NBT

A Generalize place value understanding for multi-digit whole numbers. M.4.NBT.A

1 Not applicable. See M.EE.5.NBT.1

2 Compare whole numbers to10 using symbols (<, >, =). M.EE.4.NBT.2

3 Use place value understanding to generate estimates for realworld addition and subtraction problem situations within 30, using strategies such as mental math, benchmark numbers, compatible numbers, and rounding. M.EE.4.NBT.3

B Use place value understanding and properties of operations to perform multi-digit arithmetic. M.4.NBT.B

4 Add and subtract two-digit whole numbers. M.EE.4.NBT.4

5 Not applicable. SeeM.EE.4.OA.4and M.EE.5.NBT.5. M.EE.4.NBT.5

6 Not applicable. See M.EE.5.NBT.6. M.EE.4.NBT.6

Number and Operations – Fractions 4.NF

A Extend understanding of fraction equivalence. M.4.NF.A

1 Identify models of one half(½) and one fourth (¼). M.EE.4.NF.1

2 Identify models of one half(½) and one fourth (¼). M.EE.4.NF.2

B **Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.** M.4.NF.B

3 Differentiate between whole and half. M.EE.4.NF.3

4 Not applicable. SeeM.EE.4.OA.4and M.EE.5.NBT.5.

C **Understand decimal notation for fractions and compare decimal fractions.** M.4.NF.C

5 Not applicable. See M.EE.7.NS.2c-d.

6 Not applicable. See M.EE.7.NS.2c-d.

7 Not applicable. See M.EE.7.NS.2c-d.

Measurement and Data 4.MD

A **Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.** M.4.MD.A

1 Identify the smaller measurement unit that comprises a larger unit within a measurement system including inches/foot, centimeter/meter, minutes/hour. M.EE.4.MD.1

2 Apply concepts of measurement. M.EE.4.MD.2

a Tell time using a digital clock. Tell time to the nearest hour using an analog clock. M.EE.4.MD.2.A

b Measure mass or volume using standard tools. M.EE.4.MD.2.B

c Use standard measurement to compare lengths of objects. M.EE.4.MD.2.C

d Identify coins including penny, nickel, dime, quarter and their values. M.EE.4.MD.2.D

3 Determine the area of a square or rectangle by counting units of measure (unit squares). M.EE.4.MD.3

B **Represent and interpret data.** M.4.MD.B

4 Represent and interpret data on a picture or bar graph, given a model and a graph to complete. M.EE.4.MD.4

C **Geometric measurement: understand concepts of angle and measure angles.** M.4.MD.C

5 Recognize angles in geometric shapes. M.EE.4.MD.5

6 Compare angles as larger than, smaller than, or the same size as another angle. M.EE.4.MD.6

7 Not applicable. See M.EE.4.G.2.

Geometry 4.G

A Draw and identify lines and angles and classify shapes by properties of their lines and angles. M.4.G.A

1. Recognize parallel lines and intersecting lines. M.EE.4.G.1
2. Describe the defining attributes of two-dimensional shapes. M.EE.4.G.2
3. Recognize that lines of symmetry partition shapes into equal areas. M.EE.4.G.3