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 – F

Skip to main content

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

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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