

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 within 100. 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 to 10 using symbols ($<$, $>$, $=$). M.EE.4.NBT.2
- 3 Use place value understanding to generate estimates for real-world 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. See M.EE.4.OA.4 and 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 ($\frac{1}{2}$) and one fourth ($\frac{1}{4}$). M.EE.4.NF.1
- 2 Identify models of one half ($\frac{1}{2}$) and one fourth ($\frac{1}{4}$). 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. See M.EE.4.OA.4 and 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.
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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