Iowa Essential Elements for Mathematics

Fifth Grade

Operations and Algebraic Thinking

Additional Cluster: Write and interpret numerical expressions.

1 Not applicable.

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Additional Cluster: Analyze a pair of number sequences.

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

Numbers and Operations in Base Ten

Major Cluster: Understand the place value system.

1 Compare numbers up to 99 using base ten models. 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. EE.5.NBT.2

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

4 Round two-digit whole numbers to the nearest 10 from 0—90. EE.5.NBT.4

Number and Operations–Fractions

Major Cluster: Use equivalent fractions as a strategy to add and subtract fractions.

1 Identify models of halves (1/2, 2/2) and fourths (1/4, 2/4, 3/4, 4/4). EE.5.NF.1

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

Measurement and Data

Supporting Cluster: Convert like measurement units within a given measurement system.

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

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

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

Geometry

Additional Cluster: Graph points on the coordinate plane to solve real-world and mathematical problems.

1 Sort two-dimensional figures and identify the attributes (angles, number of sides, corners, color) they have in common. EE.5.G.1

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Additional Cluster: Classify two-dimensional figures into categories based on their properties.

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