

## Grade 2 Math Benchmarks

### 1. Reads and writes numbers in many ways

Trimester	1	2	3	4
1 <sup>st</sup>	<p><b>Unable to or rarely:</b> Counts within 1000 skip counts by 5, 10, and 100s.</p> <p>Reads and writes numbers to 1000 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 1000.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	<p><b>With support:</b> Counts within 1000; skip counts by 5s and 10s.</p> <p>Reads and writes numbers to 100 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 100.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	<p><b>Frequently:</b> Counts within 1000, skip counts by 5, 10, and 100s. -Reads and writes numbers to 1000 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 1000.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	<p><b>Independently:</b> Counts within 1000, skip counts by 5, 10, and 100s. -Reads and writes numbers to 1000 using base ten numerals, number names, and expanded form. -Understands the value of each digit in numbers up to 1000.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p> <p>Uses place value understanding and properties of operations to round to the whole numbers to the nearest 10 or 100.</p>
2 <sup>nd</sup>	<p><b>Unable to or rarely:</b> Counts within 1000 skip counts by 5, 10, and 100s.</p> <p>Reads and writes numbers to 1000 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 1000.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	<p><b>With support:</b> Counts within 1000; skip counts by 5s and 10s.</p> <p>Reads and writes numbers to 100 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 100.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	<p><b>Frequently:</b> Counts within 1000, skip counts by 5, 10, and 100s. Reads and writes numbers to 1000 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 1000.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	<p><b>Independently:</b> Counts within 1000, skip counts by 5, 10, and 100s. -Reads and writes numbers to 1000 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 1000.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>

				-Uses place value understanding and properties of operations to round to the whole numbers to the nearest 10 or 100.
3 <sup>rd</sup>	<p><b>With support:</b> Counts within 1000; skip counts by 5s and 10s.</p> <p>Reads and writes numbers to 100 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 100.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	<p><b>Frequently:</b> Counts within 1000, skip counts by 5, 10, and 100s. -Reads and writes numbers to 1000 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 1000.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	<p><b>Independently:</b> Counts within 1000, skip counts by 5, 10, and 100s.</p> <p>Reads and writes numbers to 1000 using base ten numerals, number names, and expanded form.</p> <p>Understands the value of each digit in numbers up to 1000.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p>	<p><b>Independently:</b> Counts 1000, skip counts by 5, 10, and 100s. -Reads and writes numbers to 1000 using base ten numerals, number names, and expanded form. -Understands the value of each digit in numbers up to 1000.</p> <p>Compares two 3-digit numbers using <math>&gt;</math>, <math>=</math>, <math>&lt;</math>.</p> <p>Uses place value understanding and properties of operations to round to the whole numbers to the nearest 10 or 100.</p>

## 2. Adds and subtracts using many strategies

Trimester	1	2	3	4
1 <sup>st</sup>	With support unable to or rarely uses place value understanding and properties of addition to add within 20.	With support uses place value understanding and properties of addition to add within 20.	Uses place value understanding and properties of addition/subtraction to add within 20.	Uses place value understanding and properties of addition to add within 100.
2 <sup>nd</sup>	With support uses place value understanding and properties of addition to add within 20.	Uses place value understanding and properties of addition/subtraction to add within 20.	Uses place value understanding and properties of addition to add within 100.	Uses place value understanding and properties of addition/subtraction to add/subtract within 1000.

3 <sup>rd</sup>	With support uses place value understanding and properties of addition/subtraction to add/subtract within 100.	Uses place value understanding and properties of addition/subtraction to add/subtract within 1000.	Uses place value understanding and properties of addition/subtraction to add/subtract within 1000.  Explain why addition and subtraction strategies work using place value and the properties of operations.	Fluently add and subtract within 1000 using strategies based on place value, properties of operations, and relationships between addition and subtraction.  Explain why addition and subtraction strategies work using place value and properties of operations.
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### 3. Fluently adds and subtracts within 20

Trimester	1	2	3	4
1 <sup>st</sup>	With support unable to or rarely adds and subtracts within 12.	Fluently adds within 12 with support.	Fluently adds and subtracts within 14 from memory.	Fluently adds and subtracts within 17 from memory.
2 <sup>nd</sup>	Unable to add and subtract within 12 from memory.	Fluently adds within 14 from memory.	Fluently adds and subtracts within 17 from memory.	Fluently adds and subtracts within 20 from memory.
3 <sup>rd</sup>	Fluently adds and subtracts within 14 from memory.	Fluently adds and subtracts within 17 from memory.	Fluently adds and subtracts within 20 from memory.	Multiplies with 2s, 5s, and 10s.

### 4. Solves word problems and shows and explains thinking

Trimester	1	2	3	4
1 <sup>st</sup>	Unable to add and subtract within 10 using drawings or equations to solve word problems and unable to explain their thinking.	With support adds and subtracts within 10 using drawings or equations to solve word problems and attempts to explain their thinking.	Adds and subtracts within 20 using drawings and equations to solve one step word problems and attempts to explain their thinking with support.	Adds and subtracts within 50 using drawings or equations to solve word problems and explains their thinking in one way.
2 <sup>nd</sup>	With support adds and subtracts within 10 using drawings or equations to	Adds and subtracts within 20 using drawings and equations to solve one step	Adds and subtracts within 50 using drawings or equations to solve word	Adds and subtracts within 100 using drawings and/or equations to solve multistep

	solve word problems and attempts to explain their thinking.	word problems and attempts to explain their thinking with support.	problems and explains their thinking in one way.	word problems with support and explains their thinking in one way.
3 <sup>rd</sup>	Adds and subtracts within 20 using drawings or equations to solve word problems and explains their thinking in one way.	Adds and subtracts within 50 using drawings and/or equations to solve multistep word problems with support and explains their thinking in one way.	Adds and subtracts within 100 using drawings and equations to solve multistep word problems and explains their thinking in one way.	Independently adds and subtracts greater than 100 using drawings and equations to solve multistep word problems and explains their thinking in more than way.

### 5. Names, draws, and divides shapes into equal parts

Trimester	1	2	3	4
1 <sup>st</sup>	<b>Unable to, or rarely :</b> Identifies, draws and sorts 2 and 3 dimensional shapes; triangles, quadrilaterals, pentagons, hexagons, and cubes when given specific attributes.	Identifies, draws and sorts 2 and 3 dimensional shapes; triangles, quadrilaterals, pentagons, hexagons, and cubes when given specific attributes with support.	Identifies, draws and sorts 2 and 3 dimensional shapes; triangles, quadrilaterals, pentagons, hexagons, and cubes when given specific attributes with support.  Partitions a shape into parts of the same size with support.	Identifies, draws and sorts 2 and 3 dimensional shapes; triangles, quadrilaterals, pentagons, hexagons, and cubes when given specific attributes.  Partitions a shape into parts of the same size and describe using halves, thirds, fourths and quarters.
2 <sup>nd</sup>	<b>Unable to, or rarely :</b> Identifies, draws and sorts 2 and 3 dimensional shapes; triangles, quadrilaterals, pentagons, hexagons, and cubes when given specific attributes.	Identifies, draws and sorts 2 and 3 dimensional shapes; triangles, quadrilaterals, pentagons, hexagons, and cubes when given specific attributes with support.	Identifies, draws and sorts 2 and 3 dimensional shapes; triangles, quadrilaterals, pentagons, hexagons, and cubes when given specific attributes with support.  Partitions a shape into parts of the same size with support.	Identifies, draws and sorts 2 and 3 dimensional shapes; triangles, quadrilaterals, pentagons, hexagons, and cubes when given specific attributes.  Partitions a shape into parts of the same size and describe using halves, thirds, fourths and quarters.
3 <sup>rd</sup>	In addition to quarter 1 and 2:	In addition to quarter 1 and 2:	In addition to quarter 1 and 2:	In addition to quarter 1 and 2:

	<p><b>Rarely or Unable to:</b> Partition a shape into parts of the same size and describe using halves, thirds, fourths.</p> <p>Recognize and draw shapes with specific attributes; angles, faces, vertices.</p> <p>Recognize equal shares of identical wholes do not need to look the same.</p>	<p><b>Inconsistently can:</b> Partition a shape into parts of the same size and describe using halves, thirds, fourths.</p> <p>Recognize and draw shapes with specific attributes; angles, faces, vertices.</p> <p>Recognize equal shares of identical wholes do not need to look the same.</p>	<p><b>Frequently can:</b> Partition a shape into parts of the same size and describe using halves, thirds, fourths.</p> <p>Recognize and draw shapes with specific attributes; angles, faces, vertices.</p> <p>Recognize equal shares of identical wholes do not need to look the same.</p>	<p><b>Independently can:</b> Partition a shape into parts of the same size and describe using halves, thirds, fourths.</p> <p>Recognize and draw shapes with specific attributes; angles, faces, vertices.</p> <p>Recognize equal shares of identical wholes do not need to look the same.</p> <p>Can write and compare fractions as numbers.</p>
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## 6 .Understands and shows data using a variety of graphs

Trimester	1	2	3	4
1 <sup>st</sup>	With support Rarely or unable to interpret picture and bar graphs with up to 2 categories.	With support can sometimes interpret picture and bar graphs with up to two categories.	With support/sometimes without support can always interpret picture and bar graphs with up to four categories.	Independently interprets a picture graph and a bar graph with up to four categories.  Solves simple word problems using data.
2 <sup>nd</sup>	With support Rarely or unable to interpret picture and bar graphs with up to 2 categories.	With support can sometimes interpret picture and bar graphs with up to two categories.	With support/sometimes without support can always interpret picture and bar graphs with up to four categories.	Independently interprets a picture graph and a bar graph with up to four categories.  Solves simple word problems using data.

3 <sup>rd</sup>	Independently interprets a picture graph and a bar graph with up to four categories.	Solves simple addition, subtraction, and comparison problems using information presented in a bar and picture graph.	Independently interprets a picture graph and a bar graph with up to four categories.  Using given data creates a bar graph picture graph or line plot.  Solves simple word problems using data.	Gathers data and creates a bar graph, picture graph and line plot with titles solves one and two step problems.
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### 7. Tells and writes time to the nearest 5 minutes using AM and PM

Trimester	1	2	3	4
1 <sup>st</sup>	Unable to write and tell time to the hour using analog and digital clocks.	With support can tell and write time to the hour and half hour using analog and digital clocks.	Can tell and write time to the hour and half hour using analog and digital clocks.	Can tell and write time to the nearest minute using AM and PM using analog and digital clocks.
2 <sup>nd</sup>	Unable to write and tell time to the hour using analog and digital clocks.	With support can tell and write time to the hour and half hour using analog and digital clocks.	Can tell and write time to the hour and half hour using analog and digital clocks.	Can tell and write time to the nearest minute using AM and PM using analog and digital clocks.
3 <sup>rd</sup>	Can tell and write time to the hour and half hour using analog and digital clocks.	With support can tell and write time to the nearest five minutes using AM and PM, analog and digital clocks.	Can tell and write time to the nearest 5 minutes, using AM and PM, using analog and digital clocks.	Can tell and write time to the nearest minute using AM and PM using analog and digital clocks.  Can solve word problems to measure time intervals in 1 minute intervals.

### 8. Solves money word problems

Trimester	1	2	3	4
1 <sup>st</sup>	Unable to solve money word problems with pennies.	Can solve money word problems with pennies.	With support can solve money word problems with pennies and dimes.	Independently can solve money word problems with pennies, and dimes.
2 <sup>nd</sup>	With support can solve money word problems with pennies and dimes.	Can solve money word problems with pennies and dimes using symbols appropriately.	Can solve money word problems with pennies, dimes, nickels and quarters using symbols appropriately with support.	Can solve money word problems with pennies, nickels, dimes, and quarters, and dollars using symbols appropriately.
3 <sup>rd</sup>	With support can occasionally solve money word problems with pennies, dimes, nickels and quarters using symbols appropriately.	With support can solve money word problems with pennies, nickels, dimes, and quarters, and dollars using symbols appropriately.	Can solve money word problems with pennies, nickels, dimes, and quarters, and dollars using symbols appropriately.	Can solve money word problems with pennies, nickels, dimes, quarters, and dollar bills using symbols and decimal points appropriately.

### 9. Estimates and measures the length of an object in more than one way

Trimester	1	2	3	4
1 <sup>st</sup>	<b>Unable:</b> To use nonstandard units to measure the length of an object.	<b>With support:</b> Can use nonstandard units to measure the length of an object.	Can use nonstandard units to measure the length of an object.	Can use nonstandard units to measure the length of an object and makes comparisons to other objects.
2 <sup>nd</sup>	<b>Unable:</b> To use nonstandard units to measure the length of an object.	<b>With support:</b> Can use nonstandard units to measure the length of an object.	Can use nonstandard units to measure the length of an object.	Can use nonstandard units to measure the length of an object and makes comparisons to other objects.
3 <sup>rd</sup>	Can use nonstandard units to measure the length of an object and comparisons to other objects.	<b>With support:</b> Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.	Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.  Estimate and measure lengths using units of inches, feet,	Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to

			<p>centimeters, and meters to determine how much longer one object is than another, expressing the length difference.</p> <p>Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.</p>	<p>the size of the unit chosen.</p> <p>Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.</p> <p>Estimate and measure lengths using units of inches, feet, centimeters, and meters to determine how much longer one object is than another, expressing the length difference.</p>
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