

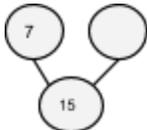
**Grade 1 Math Question Stem Bank: Common Core State Standards
Standards for Mathematical Practice**

Operations & Algebraic Thinking

Standard	Basic: Conceptual "Understand"	Standard: Procedural "Doing"	Expanded: Application
<p>1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.</p>	<p>In the dog park there were 7 large dogs and 4 small dogs. How many dogs were there all together?</p> <p>17 children were swimming in the pool. * children got out to eat a snack. How many children were still swimming?</p>	<p>There are a total of 16 bananas and apples in the bowl. If 7 are banana then how many are apples?</p>	<p>There were some turtles on a log. After 7 of them fell back in the water there were still 5 turtles. How many turtles were on the log to begin with?</p> <p>Solve the problem by:</p> <p>a) represent the problem with an addition or subtraction equation using a symbol to represent the unknown number b) use objects or drawings to model the problem and find the solution c) answer the question in a sentence</p>
<p>1.OA.A.2 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.</p>	<p>Alex had 2 red crayons, 8 blue and 5 yellow. How many crayons did Alex have?</p>	<p>Sam bought three pizzas for the birthday party. There were 4 slices of cheese pizza left, 6 slices of pepperoni and 3 slices of sausage left. How many slices were left all together?</p>	<p>Complete to make the equation true.</p> <p>_____ + _____ + _____ = 14</p> <p>Find three numbers using 0-9 that equal a sum of 12. How many different ways can you make a sum of 12?</p>

** It may be appropriate to read some of the longer problems out loud especially with lower readers*

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<p>1.OA.B.3 Apply properties of operations as strategies to add and subtract.2 <i>Examples: If $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known. (Commutative property of addition.) To add $2 + 6 + 4$, the second two numbers can be added to make a ten, so $2 + 6 + 4 = 2 + 10 = 12$. (Associative property of addition.)</i></p>	<p>Solve.</p> <p>$5 + \underline{\quad} = 6 + 5$</p> <p>$\underline{\quad} + 3 = 3 + 4$</p>	<p>Solve.</p> <p>$8 + 3 + 2 = 10 + \underline{\quad}$</p> <p>Jody has 4 dogs, 6 turtles and 2 cats. How many pets does she have in all? Write an equation that could help you to solve this problem.</p>	<p>At the pet store. There are 9 dogs, 1 cat and 3 fish. How many pets are in the store? What number sentence could you write to match this story problem? Where is 10 in this number sentence? What new number sentence could we write to match what we did?</p>
<p>1.OA.B.4 Understand subtraction as an unknown-addend problem. <i>For example, subtract $10 - 8$ by finding the number that makes 10 when added to 8.</i></p> <p>1.OA.8 Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.</p>	 <p>Complete the number bond and write an addition and subtraction equation.</p> <p>$\underline{\quad} + \underline{\quad} = \underline{\quad}$</p> <p>$\underline{\quad} - \underline{\quad} = \underline{\quad}$</p>	<p>$\underline{\quad} + 7 = 12$ $12 - \underline{\quad} = 5$</p> <p>How can the above equations help you solve this problem?</p> <p>$12 - \underline{\quad} = 7$</p>	<p>Write an addition and subtraction equation to solve.</p> <p>Ally ate 19 animal crackers. If she ate 8 for lunch how many did she eat for snack?</p>
<p>1.OA.C.5 Relate counting to addition and subtraction (e.g., by counting on 2 to add 2)</p>	<p>Complete.</p> <p>1 more than 15 is $\underline{\quad}$</p> <p>1 less than 21 is $\underline{\quad}$</p> <p>5 more than 10 is $\underline{\quad}$</p>	<p>Cam starting counting “8, 9, 10, 11, 12, 13, 14, 15, 16.” What problem could Cam have been solving?</p>	<p>Jake began counting backwards from 19 and counted to 7. Show using a number line the numbers Jake would have counted from 19 to 7.</p>

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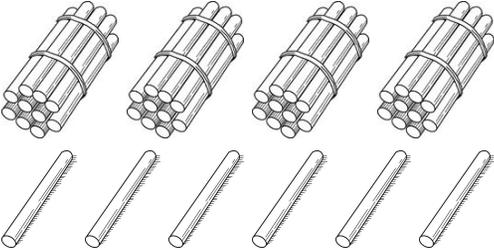
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<p>1.OA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten, decomposing a number leading to a ten, using the relationship between addition and subtraction</p>	<p>Provide students with problems to add or subtract within 20. (fluency and use of strategies to solve)</p>	<p>Solve problems and state which strategy you used. (doubles, sums of 10...)</p>	<p>Write an addition problem where doubles strategy is used.</p> <p>Write an addition problem where making 10 strategy can be used.</p>
<p>1.OA.D.7 Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? $6 = 6$, $7 = 8 - 1$, $5 + 2 = 2 + 5$, $4 + 1 = 5 + 2$.</p>	<p>$3 + 2 = 4 + 1$ True False</p> <p>$7 - 4 = 2 + 1$ True False</p> <p>$12 = 14 - 1$ True False</p> <p>(You could also give students equations and have them circle all that are true.)</p>	<p>Make the number sentence true.</p> <p>$6 + \underline{\quad} = 7 + 2$</p>	<p>Use the following numbers to make two true equations.</p> <p align="center">8 7</p>

Color boxes indicate question complexity focus range for CCSS

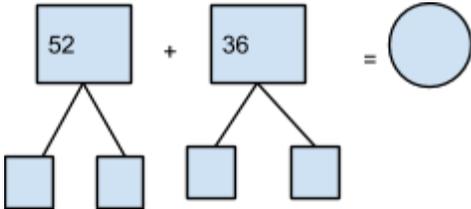
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Numbers and Operations in Base Ten

Standard	Basic: Conceptual "Understand"	Standard: Procedural "Doing"	Expanded: Application																														
<p>1.NBT.A.1 Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.</p>	<p>Write the numbers that come next.</p> <p>52, _____, _____, _____, _____</p> <p>92, _____, _____, _____, _____</p> <p>_____, _____, 88, 89, _____</p>	<p>Count backwards. (Continue for at least 10 numbers)</p> <p>Start at 78, 77, 76....</p> <p>Start at 101,...</p>	<p>Complete the table.</p> <table border="1" data-bbox="1360 423 1978 591"> <tr> <td></td> <td></td> <td></td> <td>94</td> <td></td> <td></td> <td></td> <td>98</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>103</td> <td></td> <td>105</td> <td></td> <td></td> <td></td> <td>109</td> <td></td> </tr> <tr> <td></td> <td>112</td> <td></td> <td></td> <td></td> <td>116</td> <td></td> <td></td> <td></td> <td>120</td> </tr> </table>				94				98					103		105				109			112				116				120
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<p>1.NBT.B.2 Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases: 2.A 10 can be thought of as a bundle of ten ones — called a "ten." 2.B The</p>	<p>How many tens and ones?</p> <p>57= _____ tens _____ ones</p> <p>43= _____ tens _____ ones</p> <p>_____ = 7 tens 4 ones</p> <p>62= _____ tens 2 ones</p>	 <p>How many all together? _____</p> <p>Sal bought 40 pieces of gum. If he bought 10 more which number would change to show how many pieces he had now?</p>	<p>Max made a two-digit number with a 4 in the ones place. What possible numbers could Max make?</p>																														

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<p>numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones..2.C The numbers 10, 20, 30, 40, 50, 60, 70,80, 90 refer to 1 ten, 2 tens....</p>			
<p>1.NBT.B.3 Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$, $=$, and $<$.</p>	<p>Compare the numbers using $<$, $>$, $=$.</p> <p>67 <input type="radio"/> 52</p> <p>23 <input type="radio"/> 42</p> <p>54 <input type="radio"/> 45</p>	<p>Jill had 24 suckers and 26 students in her class. Circle the correct comparisons for this problem.</p> <p>24 $>$ 26 26 $<$ 24 26 $>$ 24 24 $<$ 26</p> <p>Does Jill have enough suckers for all the students in her class?</p>	<p>Write three numbers that are greater than 28 and less than 50.</p>
<p>1.NBT.C.4 Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit</p>	<p>Break apart the two numbers and add.</p> 	<p>Colby swam 54 laps on Monday and 32 laps on Tuesday. How many laps did Colby swim all together?</p>	<p>Add. Use pictures, numbers or words to show how you added.</p> <p>76 + 23 =</p>

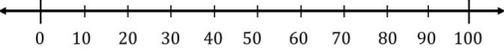
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<p>number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties and realize it is sometimes necessary to compose a ten.</p>															
<p>1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.</p>	<p>Solve.</p> <p>$36 + 10 =$</p> <p>$42 - 10 =$</p>	<p>Solve using what you know about a hundred chart.</p> <table border="1" data-bbox="810 699 1062 1052"> <tr> <td>15</td> <td></td> <td>17</td> </tr> <tr> <td></td> <td>26</td> <td></td> </tr> <tr> <td></td> <td></td> <td>37</td> </tr> <tr> <td>45</td> <td></td> <td></td> </tr> </table>	15		17		26				37	45			<p>Add 10 more or 10 less to complete.</p> <p>_____55_____</p> <p>35_____</p> <p>_____50_____</p>
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<p>1.NBT.C.6 Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.</p>	<p>$70 - 40 =$</p> <p>$50 - 30 =$</p> <p>Use base ten blocks to represent the problem and solve.</p> <p>$60 - 20 =$</p>	<p>Sam had 80 ants. 60 ants escaped out of the ant farm. How many are left?</p>  <p>A horizontal number line with arrows at both ends. It is marked with numbers from 0 to 100 in increments of 10: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100.</p>	<p>Show two ways to solve. (number line, base ten blocks, place value)</p> <p style="text-align: center;">$70 - 20 =$</p>
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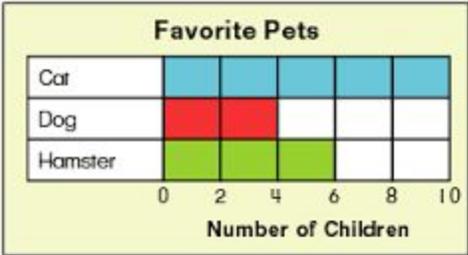
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Measurement & Data

Standard	Basic: Conceptual "Understand"	Standard: Procedural "Doing"	Expanded: Application
<p>1.MD.A.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object.</p>	<p>Circle the shortest object.</p> 	<p>Using the pencil, paper clip and eraser (basic ?) and complete the statements.</p> <p>The _____ is shorter than the _____. The eraser is longer than the _____. The pencil is shorter than the _____.</p>	<p>Draw three different objects or shapes. Then put the in order of their length. Label the objects 1, 2, 3 from shortest to longest.</p>
<p>1.MD.A.2 Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts where the object being</i></p>	<p>Measure the crayon using centimeter cubes.</p> 	<p>Provide students with 3 different objects to measure using non-standard units of measurement. Have students measure and compare the lengths shortest to longest.</p>	<p>Ben measured his mom's desk with paper clips and it measured 32 paper clips. Alex measured the same table but it measured 42 paperclips. How could this happen?</p>

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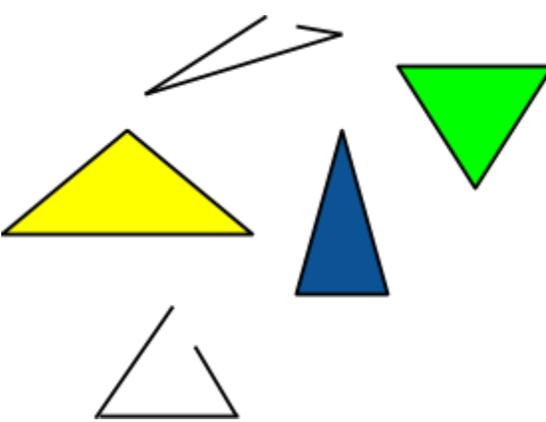
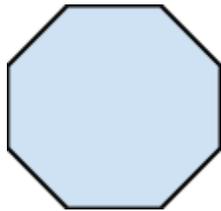
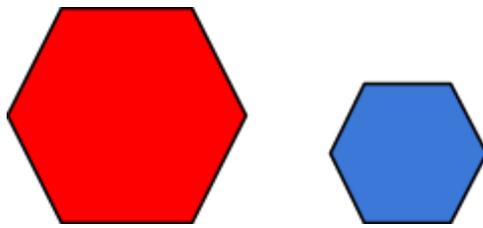
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<p><i>measured is spanned by a whole number of length units with no gaps or overlaps.</i></p>			
<p>1.MD.B.3 Tell and write time in hours and half-hours using analog and digital clocks.</p>	 <p align="center">_____</p>	<p>Show 3:30, 12:30 and 6:30 on an analog clock. Circle the clock that shows 12:30. How do you know?</p>	<p>If Max get home between 5:00 and 7:00, what are some possible times he gets home to the nearest hour or half hour?</p>
<p>1.MD.C.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.</p>	 <p>How many children's favorite pet was a hamster? _____</p>	<p>Example using graph from basic question.</p> <p>How many more students chose cat as their favorite pet than hamster? _____</p> <p>How many total students voted? _____</p> <p>3 more students chose cat than _____.</p>	<p>Avery bought three flavors of Gatorade for his ball game. He has 15 bottles all together. Create a graph to show his flavors and possible amounts for each flavor.</p>

Geometry

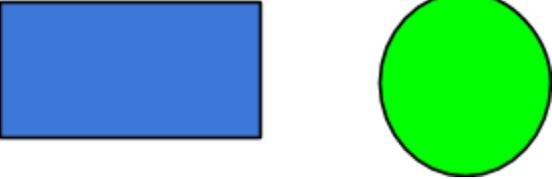
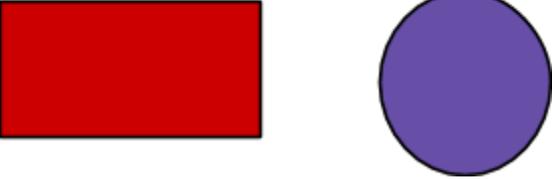
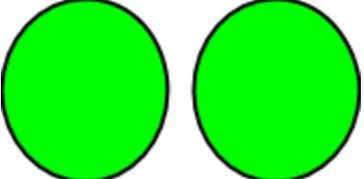
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Standard	Basic: Conceptual "Understand"	Standard: Procedural "Doing"	Expanded: Application
<p>1.G.A.1 Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.</p>	<p>Circle the triangles below.</p> 	<p>Look at the shape.</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>How many sides? _____ How many angles? _____</p> </div>	<p>Callie said all triangles have to be the same size and face the same direction to be a triangle. Do you agree? Give examples to prove your answer.</p> <p>Compare the two shapes. How are they similar and how are they different?</p> 
<p>1.G.A.2 Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular</p>	<p>Make a shape that has two rectangles and a triangle.</p> <p>You could show students 2D and 3D shapes for them to name.</p>	<p>What new shape can be made putting together 2 trapezoids?</p>	<p>Using tangram pieces make a triangle using 5 of the smallest triangles. Record your shape. Use all your tangram pieces to make a triangle. Record your shape.</p> <p>Use pattern blocks to create a new shape and record. Tell me about your new shape.</p>

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<p>cylinders) to create a composite shape, and compose new shapes from the composite shape.</p>			
<p>1.G.A.3 Partition circles and rectangles into two and four equal shares, describe the shares using the words <i>halves</i>, <i>fourths</i>, and <i>quarters</i>, and use the phrases <i>half of</i>, <i>fourth of</i>, and <i>quarter of</i>. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.</p>	<p>Partition the shapes into 2 equal parts.</p>  <p>Partition the shapes into 4 equal parts.</p> 	<p>Show two ways to partition the shape into 2 equal parts.</p>  <p>Show two ways to partition the shape into 4 equal parts.</p> 	<p>Create a fraction picture or object. Then explain your picture using terms such as fraction, half, whole, fourths, equal pieces or halves. Such as:</p> <p>I made a _____. I used _____.</p> <p>(You could give students colored sticker dots to cut into equal parts and build their picture or object.)</p>

Grade 1 Math Common Core State Standards

Operations & Algebraic Thinking

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Grade 1 Math Question Stem Bank: Common Core State Standards

Standards for Mathematical Practice

Represent and solve problems involving addition and subtraction.

CCSS.MATH.CONTENT.1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

CCSS.MATH.CONTENT.1.OA.A.2 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

Understand and apply properties of operations and the relationship between addition and subtraction.

CCSS.MATH.CONTENT.1.OA.B.3 Apply properties of operations as strategies to add and subtract. *2 Examples: If $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known. (Commutative property of addition.) To add $2 + 6 + 4$, the second two numbers can be added to make a ten, so $2 + 6 + 4 = 2 + 10 = 12$. (Associative property of addition.)*

CCSS.MATH.CONTENT.1.OA.B.4 Understand subtraction as an unknown-addend problem. *For example, subtract $10 - 8$ by finding the number that makes 10 when added to 8.*

Add and subtract within 20.

CCSS.MATH.CONTENT.1.OA.C.5 Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).

CCSS.MATH.CONTENT.1.OA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$); decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$, one knows $12 - 8 = 4$); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$).

Work with addition and subtraction equations.

CCSS.MATH.CONTENT.1.OA.D.7 Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? $6 = 6$, $7 = 8 - 1$, $5 + 2 = 2 + 5$, $4 + 1 = 5 + 2$.

CCSS.MATH.CONTENT.1.OA.D.8 Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. *For example, determine the unknown number that makes the equation true in each of the equations $8 + ? = 11$, $5 = _ - 3$, $6 + 6 = _$.*

Number & Operations in Base Ten

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Standards for Mathematical Practice

Extend the counting sequence.

CCSS.MATH.CONTENT.1.NBT.A.1 Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.

Understand place value.

CCSS.MATH.CONTENT.1.NBT.B.2 Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases:

CCSS.MATH.CONTENT.1.NBT.B.2.A 10 can be thought of as a bundle of ten ones — called a "ten."

CCSS.MATH.CONTENT.1.NBT.B.2.B The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.

CCSS.MATH.CONTENT.1.NBT.B.2.C The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).

CCSS.Math.CONTENT.1.NBT.B.3 Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$, $=$, and $<$.

Use place value understanding and properties of operations to add and subtract.

CCSS.MATH.CONTENT.1.NBT.C.4 Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.

CCSS.MATH.CONTENT.1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.

CCSS.MATH.CONTENT.1.NBT.C.6 Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

Measurement & Data

Measure lengths indirectly and by iterating length units.

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CCSS.MATH.CONTENT.1.MD.A.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object.

CCSS.MATH.CONTENT.1.MD.A.2 Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. *Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.*

Tell and write time.

CCSS.MATH.CONTENT.1.MD.B.3 Tell and write time in hours and half-hours using analog and digital clocks.

Represent and interpret data.

CCSS.MATH.CONTENT.1.MD.C.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

Geometry

Reason with shapes and their attributes.

CCSS.MATH.CONTENT.1.G.A.1 Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.

CCSS.MATH.CONTENT.1.G.A.2 Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.

CCSS.MATH.CONTENT.1.G.A.3 Partition circles and rectangles into two and four equal shares, describe the shares using the words *halves*, *fourths*, and *quarters*, and use the phrases *half of*, *fourth of*, and *quarter of*. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.

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