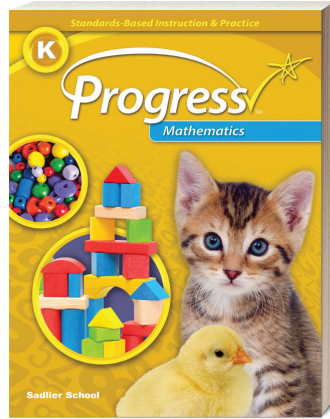SADLIER

# Progress Mathematics

Aligned to the

# College and Career Ready Indiana Academic Standards

## Mathematics: Kindergarten

## Contents

**S** **Sadlier**

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# Number Sense

| MATHEMATICS STANDARDS & DESCRIPTION, KINDERGARTEN | SADLIER *PROGRESS MATHEMATICS*, KINDERGARTEN |
|---|---|
| **K.NS.1:** Count to at least 100 by ones and tens and count on by one from any number. | **Lesson 38**    **Count by Ones and Tens to 100**—pp. 175–178<br>Learn to count by ones and tens to 100. |
| **K.NS.2:** Write whole numbers from 0 to 20 and recognize number words from 0 to 10. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects). | **Lesson 2**    **Count and Write 1 and 2**—pp. 15–18<br>Learn to write 1 and 2. |
| | **Lesson 4**    **Count and Write 3 and 4**—pp. 23–26<br>Learn to write 3 and 4. |
| | **Lesson 6**    **Count and Write 0 and 5**—pp. 31–34<br>Learn to write 0 and 5. |
| | **Lesson 9**    **Count and Write 6 and 7**—pp. 43–46<br>Learn to write 6 and 7. |
| | **Lesson 11**    **Count and Write 8, 9, and 10**—pp. 51–54<br>Learn to write 8, 9, and 10. |
| | **Lesson 13**    **Count to Tell How Many**—pp. 59–62<br>Learn to count to tell how many. |
| | **Lesson 28**    **Count and Write 11 and 12**—pp. 135–138<br>Learn to write 11 and 12. |
| | **Lesson 30**    **Count and Write 13 and 14**—pp. 143–146<br>Learn to write 13 and 14. |
| | **Lesson 32**    **Count and Write 15 and 16**—pp. 151–154<br>Learn to write 15 and 16. |
| | **Lesson 34**    **Count and Write 17 and 18**—pp. 159–162<br>Learn to write 17 and 18. |
| | **Lesson 36**    **Count and Write 19 and 20**—pp. 167–170<br>Learn to write 19 and 20. |
| **K.NS.3:** Find the number that is one more than or one less than any whole number up to 20. | **Lesson 38**    **Count by Ones and Tens to 100**—pp. 175–178<br>Learn to count by ones and tens to 100. |
| **K.NS.4:** Say the number names in standard order when counting objects, pairing each object with one and only one number name and each number name with one and only one object. Understand that the last number name said describes the number of objects counted and that the number of objects is the same regardless of their arrangement or the order in which they were counted. | **Lesson 2**    **Count and Write 1 and 2**—pp. 15–18<br>Learn to write 1 and 2. |
| | **Lesson 4**    **Count and Write 3 and 4**—pp. 23–26<br>Learn to write 3 and 4. |
| | **Lesson 6**    **Count and Write 0 and 5**—pp. 31–34<br>Learn to write 0 and 5. |
| | **Lesson 9**    **Count and Write 6 and 7**—pp. 43–46<br>Learn to write 6 and 7. |
| | **Lesson 11**    **Count and Write 8, 9, and 10**—pp. 51–54<br>Learn to write 8, 9, and 10. |
| | **Lesson 13**    **Count to Tell How Many**—pp. 59–62<br>Learn to count to tell how many. |
| | **Lesson 28**    **Count and Write 11 and 12**—pp. 135–138<br>Learn to write 11 and 12. |
| | **Lesson 30**    **Count and Write 13 and 14**—pp. 143–146<br>Learn to write 13 and 14. |
| | **Lesson 32**    **Count and Write 15 and 16**—pp. 151–154<br>Learn to write 15 and 16. |

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| | **Lesson 34**    **Count and Write 17 and 18**—pp. 159–162<br>Learn to write 17 and 18. |
| | **Lesson 36**    **Count and Write 19 and 20**—pp. 167–170<br>Learn to write 19 and 20. |
| **K.NS.5:** Count up to 20 objects arranged in a line, a rectangular array, or a circle. Count up to 10 objects in a scattered configuration. Count out the number of objects, given a number from 1 to 20. | **Lesson 1**    **Count and Model 1 and 2**—pp. 11–14<br>Learn about 1 and 2. |
| | **Lesson 2**    **Count and Write 1 and 2**—pp. 15–18<br>Learn to write 1 and 2. |
| | **Lesson 3**    **Count and Model 3 and 4**—pp. 19–22<br>Learn about 3 and 4. |
| | **Lesson 4**    **Count and Write 3 and 4**—pp. 23–26<br>Learn to write 3 and 4. |
| | **Lesson 5**    **Count and Model 0 and 5**—pp. 27–30<br>Learn about 0 and 5. |
| | **Lesson 6**    **Count and Write 0 and 5**—pp. 31–34<br>Learn to write 0 and 5. |
| | **Lesson 8**    **Count and Model 6 and 7**—pp. 39–42<br>Learn about 6 and 7. |
| | **Lesson 9**    **Count and Write 6 and 7**—pp. 43–46<br>Learn to write 6 and 7. |
| | **Lesson 10**    **Count and Model 8, 9 and 10**—pp. 47–50<br>Learn about 8, 9, and 10. |
| | **Lesson 11**    **Count and Write 8, 9, and 10**—pp. 51–54<br>Learn to write 8, 9, and 10. |
| | **Lesson 12**    **Count to Compare**—pp. 55–58<br>Learn to count to compare. |
| | **Lesson 13**    **Count to Tell How Many**—pp. 59–62<br>Learn to count to tell how many. |
| | **Lesson 27**    **Count and Model 11 and 12**—pp. 131–134<br>Learn about 11 and 12. |
| | **Lesson 28**    **Count and Write 11 and 12**—pp. 135–138<br>Learn to write 11 and 12. |
| | **Lesson 29**    **Count and Model 13 and 14**—pp. 139–142<br>Learn about 13 and 14. |
| | **Lesson 30**    **Count and Write 13 and 14**—pp. 143–146<br>Learn to write 13 and 14. |
| | **Lesson 31**    **Count and Model 15 and 16**—pp. 147–150<br>Learn about 15 and 16. |
| | **Lesson 32**    **Count and Write 15 and 16**—pp. 151–154<br>Learn to write 15 and 16. |
| | **Lesson 33**    **Count and Model 17 and 18**—pp. 155–158<br>Learn about 17 and 18. |
| | **Lesson 34**    **Count and Write 17 and 18**—pp. 159–162<br>Learn to write 17 and 18. |

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|---|---|
| | **Lesson 35** **Count and Model 19 and 20**—pp. 163–166 <br> Learn about 19 and 20. |
| | **Lesson 36** **Count and Write 19 and 20**—pp. 167–170 <br> Learn to write 19 and 20. |
| | **Lesson 37** **Make and Break Apart 11 to 19**—pp. 171–174 <br> Learn to make and break apart 11-19. |
| **K.NS.6:** Recognize sets of 1 to 10 objects in patterned arrangements and tell how many without counting. | **Lesson 1** **Count and Model 1 and 2**—pp. 11–14 <br> Learn about 1 and 2. |
| | **Lesson 2** **Count and Write 1 and 2**—pp. 15–18 <br> Learn to write 1 and 2. |
| | **Lesson 3** **Count and Model 3 and 4**—pp. 19–22 <br> Learn about 3 and 4. |
| | **Lesson 4** **Count and Write 3 and 4**—pp. 23–26 <br> Learn to write 3 and 4. |
| | **Lesson 5** **Count and Model 0 and 5**—pp. 27–30 <br> Learn about 0 and 5. |
| | **Lesson 6** **Count and Write 0 and 5**—pp. 31–34 <br> Learn to write 0 and 5. |
| | **Lesson 8** **Count and Model 6 and 7**—pp. 39–42 <br> Learn about 6 and 7. |
| | **Lesson 9** **Count and Write 6 and 7**—pp. 43–46 <br> Learn to write 6 and 7. |
| | **Lesson 10** **Count and Model 8, 9 and 10**—pp. 47–50 <br> Learn about 8, 9, and 10. |
| | **Lesson 11** **Count and Write 8, 9, and 10**—pp. 51–54 <br> Learn to write 8, 9, and 10. |
| **K.NS.7:** Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group (e.g., by using matching and counting strategies). | **Lesson 7** **Match to Compare**—pp. 35–38 <br> Learn to match to compare. |
| | **Lesson 12** **Count to Compare**—pp. 55–58 <br> Learn to count to compare. |
| **K.NS.8:** Compare the values of two numbers from 1 to 20 presented as written numerals. | **Lesson 14** **Compare Numbers**—pp. 63–66 <br> Learn to compare numbers (0 to 10). |
| **K.NS.9:** Use correctly the words for comparison, including: one and many; none, some and all; more and less; most and least; and equal to, more than and less than. | **Lesson 7** **Match to Compare**—pp. 35–38 <br> Learn to match to compare (equal to, more than, fewer than). |
| | **Lesson 12** **Count to Compare**—pp. 55–58 <br> Learn to count to compare (equal to, greater than, less than). |
| | **Lesson 14** **Compare Numbers**—pp. 63–66 <br> Learn to compare numbers (equal to, greater than, less than). |
| **K.NS.10:** Separate sets of ten or fewer objects into equal groups. | Not addressed at this level. |

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| **K.NS.11:** Develop initial understandings of place value and the base 10 number system by showing equivalent forms of whole numbers from 10 to 20 as groups of tens and ones using objects and drawings. | **Lesson 37**    **Make and Break Apart 11 to 19**—pp. 171–174 <br> Learn to make and break apart 11-19. |

# Computation and Algebraic Thinking

| Mathematics Standards & Description, Kindergarten | Sadlier *Progress Mathematics*, Kindergarten |
|---|---|
| **K.CA.1:** Use objects, drawings, mental images, sounds, etc., to represent addition and subtraction within 10. | **Lesson 16**    **Put Together to Add**—pp. 79–82 <br> Learn to put groups together. |
| | **Lesson 17**    **Add to Find How Many**—pp. 83–86 <br> Learn to add to find how many in all. |
| | **Lesson 19**    **Take Away to Subtract**—pp. 91–94 <br> Learn to take away. |
| | **Lesson 20**    **Subtract to Find How Many Left**—pp. 95–98 <br> Learn to subtract. |
| **K.CA.2:** Solve real-world problems that involve addition and subtraction within 10 (e.g., by using objects or drawings to represent the problem). | **Lesson 18**    **Problem Solving: Addition**—pp. 87–90 <br> Use addition to solve word problems. |
| | **Lesson 21**    **Problem Solving: Subtraction**—pp. 99–102 <br> Learn to solve problems with subtraction. |
| **K.CA.3:** Use objects, drawings, etc., to decompose numbers less than or equal to 10 into pairs in more than one way, and record each decomposition with a drawing or an equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$). [In Kindergarten, students should see equations and be encouraged to trace them, however, writing equations is not required.] | **Lesson 22**    **Break Apart Numbers to 5**—pp. 103–106 <br> Learn to break apart numbers. |
| | **Lesson 25**    **Break Apart Numbers to 10**—pp. 115–118 <br> Learn to break apart numbers to 10. |
| **K.CA.4:** Find the number that makes 10 when added to the given number for any number from 1 to 9 (e.g., by using objects or drawings), and record the answer with a drawing or an equation. | **Lesson 26**    **Make Ten**—pp. 119–122 <br> Learn to make 10. |
| **K.CA.5:** Create, extend, and give an appropriate rule for simple repeating and growing patterns with numbers and shapes. | Not addressed at this level. |

# Geometry

| Mathematics Standards & Description, Kindergarten | Sadlier *Progress Mathematics*, Kindergarten |
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| **K.G.1:** Describe the positions of objects and geometric shapes in space using the terms inside, outside, between, above, below, near, far, under, over, up, down, behind, in front of, next to, to the left of and to the right of. | **Lesson 48**    **Above, Below, Beside, Next To**—pp. 231–234 <br> Learn to use position words. |
| | **Lesson 49**    **In Front of, Behind**—pp. 235–238 <br> Learn to use position words. |
| **K.G.2:** Compare two- and three-dimensional shapes in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/"corners") and other attributes (e.g., having sides of equal length). | **Lesson 42**    **Circles and Triangles**—pp. 207–210 <br> Learn to identify circles and triangles. |
| | **Lesson 43**    **Squares, Rectangles, and Hexagons**—pp. 211–214 <br> Learn to identify squares, rectangles, and hexagons. |

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| | **Lesson 44** | **Compare Flat Shapes**—pp. 215–218<br>Learn to compare flat shapes. |
| | **Lesson 45** | **Solid Shapes**—pp. 219–222<br>Learn to name cubes, cones, cylinders, and spheres. |
| | **Lesson 46** | **Compare Solid Shapes**—pp. 223–226<br>Learn to compare solid shapes. |
| | **Lesson 47** | **Identify Flat and Solid Shapes**—pp. 227–230<br>Learn to identify shapes as flat or solid. |
| **K.G.3:** Model shapes in the world by composing shapes from objects (e.g., sticks and clay balls) and drawing shapes. | **Lesson 50** | **Building Shapes**—pp. 239–242<br>Learn to build shapes. |
| **K.G.4:** Compose simple geometric shapes to form larger shapes (e.g., create a rectangle composed of two triangles). | **Lesson 51** | **Building Larger Shapes**—pp. 243–246<br>Learn to build larger shapes from smaller shapes. |

# Measurement

| Mathematics Standards & Description, Kindergarten | Sadlier *Progress Mathematics*, Kindergarten | |
|---|---|---|
| **K.M.1:** Make direct comparisons of the length, capacity, weight, and temperature of objects, and recognize which object is shorter, longer, taller, lighter, heavier, warmer, cooler, or holds more. | **Lesson 39** | **Describe Measurements**—pp. 187–190<br>Learn to describe measurements of objects. |
| | **Lesson 40** | **Compare Measurements**—pp. 191–194<br>Learn to compare measurements. |
| **K.M.2:** Understand concepts of time, including: morning, afternoon, evening, today, yesterday, tomorrow, day, week, month, and year. Understand that clocks and calendars are tools that measure time. | Not addressed at this level. | |

# Data Analysis

| Mathematics Standards & Description, Kindergarten | Sadlier *Progress Mathematics*, Kindergarten | |
|---|---|---|
| **K.DA.1:** Identify, sort, and classify objects by size, number, and other attributes. Identify objects that do not belong to a particular group and explain the reasoning used. | **Lesson 41** | **Sort and Count**—pp. 195–198<br>Learn to sort and count. |