

# Acadience® Math: Summary of Benchmark Goals and Cut Points for Risk

| Kindergarten                                   |           |           | First Grade |           |           | Second Grade |           |           | Third Grade |           |            | Fourth Grade |           |            | Fifth Grade |           |            | Sixth Grade |            |            |  |
|--|-----------|-----------|-------------|-----------|-----------|--------------|-----------|-----------|-------------|-----------|------------|--------------|-----------|------------|-------------|-----------|------------|-------------|------------|------------|--|
| Beg  | Mid       | End       | Beg         | Mid       | End       | Beg          | Mid       | End       | Beg         | Mid       | End        | Beg          | Mid       | End        | Beg         | Mid       | End        | Beg         | Mid        | End        |  |
| <b>Math Composite Score</b>                    |           |           |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 33   | 89        | 110       | 148         | 53        | 68        | 32           | 57        | 86        | 56          | 99        | 126        | 84           | 101       | 150        | 65          | 118       | 149        | 85          | 125        | 159        |  |
| <b>24</b>                                      | <b>72</b> | <b>92</b> | <b>124</b>  | <b>46</b> | <b>59</b> | <b>24</b>    | <b>46</b> | <b>66</b> | <b>49</b>   | <b>83</b> | <b>101</b> | <b>70</b>    | <b>83</b> | <b>117</b> | <b>53</b>   | <b>93</b> | <b>116</b> | <b>73</b>   | <b>104</b> | <b>132</b> |  |
| 13   | 49        | 67        | 81          | 33        | 44        | 16           | 30        | 48        | 33          | 57        | 74         | 47           | 55        | 81         | 35          | 63        | 79         | 46          | 72         | 94         |  |
| <b>Beginning Quantity Discrimination (BQD)</b> |           |           |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 6  | 10        | 16        |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>5</b>                                       | <b>7</b>  | <b>13</b> |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 2  | 4         | 9         |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>Number Identification Fluency (NIF)</b>     |           |           |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 9  | 21        | 34        | 33          |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>6</b>                                       | <b>14</b> | <b>25</b> | <b>27</b>   |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 4  | 8         | 14        | 16          |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>Next Number Fluency (NNF)</b>               |           |           |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 7  | 13        | 16        | 14          |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>5</b>                                       | <b>11</b> | <b>14</b> | <b>12</b>   |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 2  | 7         | 10        | 9           |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>Advanced Quantity Discrimination (AQD)</b>  |           |           |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 13   | 22        | 25        |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>10</b>                                      | <b>19</b> | <b>22</b> |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 6  | 14        | 17        |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>Missing Number Fluency (MNF)</b>            |           |           |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 6  | 9         | 12        |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>4</b>                                       | <b>8</b>  | <b>10</b> |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 2  | 6         | 8         |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| <b>Computation (Comp)</b>                      |           |           |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 6  | 14        | 20        | 8           | 14        | 19        | 15           | 25        | 35        | 21          | 39        | 58         | 32           | 66        | 70         | 46          | 66        | 77         |             |            |            |  |
| <b>5</b>                                       | <b>11</b> | <b>17</b> | <b>6</b>    | <b>11</b> | <b>15</b> | <b>13</b>    | <b>22</b> | <b>29</b> | <b>17</b>   | <b>31</b> | <b>46</b>  | <b>27</b>    | <b>52</b> | <b>56</b>  | <b>39</b>   | <b>54</b> | <b>66</b>  |             |            |            |  |
| 3  | 7         | 11        | 3           | 8         | 10        | 9            | 16        | 21        | 12          | 21        | 33         | 18           | 31        | 38         | 28          | 37        | 47         |             |            |            |  |
| <b>Concepts and Applications (C&amp;A)</b>     |           |           |             |           |           |              |           |           |             |           |            |              |           |            |             |           |            |             |            |            |  |
| 18   | 31        | 47        | 28          | 50        | 59        | 44           | 63        | 93        | 33          | 53        | 81         | 38           | 60        | 82         |             |           |            |             |            |            |  |
| <b>14</b>                                      | <b>24</b> | <b>35</b> | <b>23</b>   | <b>40</b> | <b>47</b> | <b>34</b>    | <b>49</b> | <b>71</b> | <b>25</b>   | <b>42</b> | <b>62</b>  | <b>30</b>    | <b>46</b> | <b>67</b>  |             |           |            |             |            |            |  |
| 8  | 15        | 23        | 13          | 24        | 32        | 21           | 30        | 46        | 15          | 26        | 40         | 18           | 30        | 49         |             |           |            |             |            |            |  |

Math Composite Score: A combination of multiple Acadience Math scores, which provides the best overall estimate of the student's math proficiency. For information on how to calculate the composite score, see the *Acadience Math Benchmark Goals Document*.

**ABOVE BENCHMARK** (small blue number in each box): Students scoring above the benchmark are highly likely to achieve important math outcomes (approximately 90% to 99% overall). These scores are identified as *Above Benchmark*. While students scoring Above Benchmark are likely to need *Core Support*, some may benefit from instruction on more advanced skills.

**BENCHMARK GOAL** (large bold number in the middle of the box): Students scoring at or above the benchmark goal have the odds in their favor (approximately 80% to 90% overall) of achieving later important math outcomes. These scores are identified as *At or Above Benchmark* and the students are likely to need *Core Support*.

**CUT POINT FOR RISK** (small red number in each box): Students scoring below the cut point for risk are unlikely (approximately 10%–20% overall) to achieve subsequent goals without receiving additional, targeted instructional support. These scores are identified as *Well Below Benchmark* and the students are likely to need *Intensive Support*.

Scores below the benchmark goal and at or above the cut point for risk are identified as *Below Benchmark*. In this range, a student's future performance is harder to predict, and these students are likely to need *Strategic Support*.