

## List of Modifications Made to Computation Problems

Some Acadience Math Computation problems were modified as part of the editing process with our publisher Voyager Sopris Learning. These modifications were made to improve consistency with the design criteria of the problems. Outlined below are the problems that were altered and now differ from previous versions of Acadience Math. The modifications are organized by grade, problem, and worksheet. Benchmark worksheets are indicated with “BM” and progress monitoring worksheets are indicated with “PM.” Please note that (a) formatting edits are not included in this list and (b) no modifications were made to sixth grade.

Grade 1		
Worksheet, Problem	Original Problem	New Problem
PM 1, #9	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>9.</p> <math display="block">\begin{array}{r} 16 \\ + 4 \\ \hline 20 \end{array}</math> <p style="text-align: center;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>9.</p> <math display="block">\begin{array}{r} 15 \\ + 4 \\ \hline 19 \end{array}</math> <p style="text-align: center;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>
PM 8, #16	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>16.</p> <math display="block">\begin{array}{r} 12 \\ + 8 \\ \hline 20 \end{array}</math> <p style="text-align: center;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>16.</p> <math display="block">\begin{array}{r} 11 \\ + 8 \\ \hline 19 \end{array}</math> <p style="text-align: center;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>
PM 8, #23	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>23.</p> <math display="block">\begin{array}{r} 16 \\ + 4 \\ \hline 20 \end{array}</math> <p style="text-align: center;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>23.</p> <math display="block">\begin{array}{r} 12 \\ + 4 \\ \hline 16 \end{array}</math> <p style="text-align: center;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>



## Grade 2

Worksheet, Problem	Original Problem	New Problem
PM 4, #2	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 88 \\ + 2 \\ \hline 90 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 84 \\ + 2 \\ \hline 86 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>
PM 5, #2	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 79 \\ + 1 \\ \hline 80 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 76 \\ + 1 \\ \hline 77 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>
PM 17, #2	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 43 \\ + 7 \\ \hline 50 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 42 \\ + 7 \\ \hline 49 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>
PM 12, #5	<p>The original problem did not contain renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>5.</p> <math display="block">\begin{array}{r} 12 \\ 15 \\ 40 \\ + 12 \\ \hline 79 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>	<p>The new problem contains renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>5.</p> <math display="block">\begin{array}{r} 12 \\ 15 \\ 44 \\ + 12 \\ \hline 83 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>

## Grade 2

Worksheet, Problem	Original Problem	New Problem
PM 8, #13	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>13.</p> <math display="block">\begin{array}{r} 58 \\ + 2 \\ \hline 60 \end{array}</math> <p style="text-align: center;"> 60</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>13.</p> <math display="block">\begin{array}{r} 55 \\ + 2 \\ \hline 57 \end{array}</math> <p style="text-align: center;"> 57</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>
PM 9, #13	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>13.</p> <math display="block">\begin{array}{r} 19 \\ + 1 \\ \hline 20 \end{array}</math> <p style="text-align: center;"> 20</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>13.</p> <math display="block">\begin{array}{r} 15 \\ + 1 \\ \hline 16 \end{array}</math> <p style="text-align: center;"> 16</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>
PM 15, #13	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>13.</p> <math display="block">\begin{array}{r} 14 \\ + 6 \\ \hline 20 \end{array}</math> <p style="text-align: center;"> 20</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>13.</p> <math display="block">\begin{array}{r} 11 \\ + 6 \\ \hline 17 \end{array}</math> <p style="text-align: center;"> 17</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>
PM 7, #15	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>15.</p> <math display="block">\begin{array}{r} 57 \\ + 23 \\ \hline 80 \end{array}</math> <p style="text-align: center;"> 80</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>15.</p> <math display="block">\begin{array}{r} 53 \\ + 23 \\ \hline 76 \end{array}</math> <p style="text-align: center;"> 76</p> <div style="text-align: right; margin-top: 10px;"> <math>\frac{1}{2} \mid \frac{1}{2}</math> </div> </div>

## Grade 2

Worksheet, Problem	Original Problem	New Problem
PM 14, #19	<p>The original problem contained renaming.</p> <div data-bbox="456 331 712 625" style="border: 1px solid black; padding: 10px;"><p>19.</p><math display="block">\begin{array}{r} 66 \\ +24 \\ \hline 90 \end{array}</math><p style="text-align: center;"></p><p style="text-align: right;"><math>\begin{array}{r} 1 \\ 2 \end{array} \bigg  \begin{array}{r} 1 \\ 2 \end{array}</math></p></div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div data-bbox="1066 331 1323 625" style="border: 1px solid black; padding: 10px;"><p>19.</p><math display="block">\begin{array}{r} 63 \\ +24 \\ \hline 87 \end{array}</math><p style="text-align: center;"></p><p style="text-align: right;"><math>\begin{array}{r} 1 \\ 2 \end{array} \bigg  \begin{array}{r} 1 \\ 2 \end{array}</math></p></div>

## Grade 3

Worksheet, Problem	Original Problem	New Problem												
PM 1, #2	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 638 \\ +252 \\ \hline 890 \end{array}</math> <p style="text-align: center;"></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding: 0 5px;">1</td><td style="padding: 0 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">2</td><td style="padding: 0 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">3</td><td style="padding: 0 5px;">3</td></tr> </table> </div>	1	1	2	2	3	3	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 636 \\ +252 \\ \hline 888 \end{array}</math> <p style="text-align: center;"></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding: 0 5px;">1</td><td style="padding: 0 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">2</td><td style="padding: 0 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">3</td><td style="padding: 0 5px;">3</td></tr> </table> </div>	1	1	2	2	3	3
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3	3													
1	1													
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PM 6, #2	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 290 \\ +111 \\ \hline 401 \end{array}</math> <p style="text-align: center;"></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding: 0 5px;">1</td><td style="padding: 0 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">2</td><td style="padding: 0 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">3</td><td style="padding: 0 5px;">3</td></tr> </table> </div>	1	1	2	2	3	3	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>2.</p> <math display="block">\begin{array}{r} 270 \\ +111 \\ \hline 381 \end{array}</math> <p style="text-align: center;"></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding: 0 5px;">1</td><td style="padding: 0 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">2</td><td style="padding: 0 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">3</td><td style="padding: 0 5px;">3</td></tr> </table> </div>	1	1	2	2	3	3
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1	1													
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PM 10, #5	<p>The original problem contained a product greater than 99.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>5.</p> <math display="block">\begin{array}{r} 32 \\ \times 4 \\ \hline 128 \end{array}</math> <p style="text-align: center;"></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding: 0 5px;">1</td><td style="padding: 0 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">2</td><td style="padding: 0 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">3</td><td style="padding: 0 5px;">3</td></tr> </table> </div>	1	1	2	2	3	3	<p>The new problem contains a product of 99 or less. The points possible for this problem changed.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>5.</p> <math display="block">\begin{array}{r} 22 \\ \times 4 \\ \hline 88 \end{array}</math> <p style="text-align: center;"></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding: 0 5px;">1</td><td style="padding: 0 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">2</td><td style="padding: 0 5px;">2</td></tr> </table> </div>	1	1	2	2		
1	1													
2	2													
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1	1													
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PM 17, #6	<p>The original problem did not contain renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>5.</p> <math display="block">\begin{array}{r} 34 \\ \times 2 \\ \hline 68 \end{array}</math> <p style="text-align: center;"></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding: 0 5px;">1</td><td style="padding: 0 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">2</td><td style="padding: 0 5px;">2</td></tr> </table> </div>	1	1	2	2	<p>The new problem contains renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>5.</p> <math display="block">\begin{array}{r} 38 \\ \times 2 \\ \hline 76 \end{array}</math> <p style="text-align: center;"></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding: 0 5px;">1</td><td style="padding: 0 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding: 0 5px;">2</td><td style="padding: 0 5px;">2</td></tr> </table> </div>	1	1	2	2				
1	1													
2	2													
1	1													
2	2													

## Grade 3

Worksheet, Problem	Original Problem	New Problem
PM 19, #7	<p>The original problem contained an answer that was greater than 50.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>7.</p> <math display="block">\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}</math> <p style="text-align: center; color: red;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>	<p>The new problem contains an answer less than 50. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>7.</p> <math display="block">\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}</math> <p style="text-align: center; color: red;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>
BM 2, Form B, #8	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>8.</p> <math display="block">\begin{array}{r} 397 \\ -228 \\ \hline 169 \end{array}</math> <p style="text-align: center; color: red;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \\ 3 &amp; 3 \end{array}</math> </div> </div>	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>8.</p> <math display="block">\begin{array}{r} 397 \\ -223 \\ \hline 174 \end{array}</math> <p style="text-align: center; color: red;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \\ 3 &amp; 3 \end{array}</math> </div> </div>
BM 3, Form B, #11	<p>The original problem contained a sum greater than 99.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>11.</p> <math display="block">\begin{array}{r} 66 \\ +35 \\ \hline 101 \end{array}</math> <p style="text-align: center; color: red;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \\ 3 &amp; 3 \end{array}</math> </div> </div>	<p>The new problem contains a sum less than 99. The points possible for this problem changed.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>11.</p> <math display="block">\begin{array}{r} 36 \\ +35 \\ \hline 71 \end{array}</math> <p style="text-align: center; color: red;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>
PM 14, #14	<p>The original problem did not contain renaming from tens to hundreds.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>14.</p> <math display="block">\begin{array}{r} 528 \\ +106 \\ \hline 634 \end{array}</math> <p style="text-align: center; color: red;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \\ 3 &amp; 3 \end{array}</math> </div> </div>	<p>The new problem contains renaming from ones to tens and tens to hundreds. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>14.</p> <math display="block">\begin{array}{r} 528 \\ +176 \\ \hline 704 \end{array}</math> <p style="text-align: center; color: red;">←</p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \\ 3 &amp; 3 \end{array}</math> </div> </div>

## Grade 3

Worksheet, Problem	Original Problem	New Problem
BM 2, Form A, #16	<p>The original problem did not contain renaming from tens to ones.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>16.</p> <math display="block">\begin{array}{r} 306 \\ -235 \\ \hline 71 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>	<p>The new problem contains renaming from tens and ones. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>16.</p> <math display="block">\begin{array}{r} 314 \\ -235 \\ \hline 79 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>
BM 3, Form B, #16	<p>The original problem did not contain renaming from tens to ones.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>16.</p> <math display="block">\begin{array}{r} 238 \\ -185 \\ \hline 143 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \\ 3 &amp; 3 \end{array}</math> </div> </div>	<p>The new problem contains renaming from tens and ones. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>16.</p> <math display="block">\begin{array}{r} 321 \\ -185 \\ \hline 136 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \\ 3 &amp; 3 \end{array}</math> </div> </div>
PM 17, #17	<p>The original problem contained addition as the operation instead of subtraction.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>17.</p> <math display="block">\begin{array}{r} 94 \\ +78 \\ \hline 172 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \\ 3 &amp; 3 \end{array}</math> </div> </div>	<p>The new problem contains subtraction as the operation. The points possible for this problem changed.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>17.</p> <math display="block">\begin{array}{r} 94 \\ -78 \\ \hline 16 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>
PM 19, #17	<p>The original problem did not contain renaming.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>17.</p> <math display="block">\begin{array}{r} 69 \\ -58 \\ \hline 11 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>	<p>The new problem contains renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>17.</p> <math display="block">\begin{array}{r} 96 \\ -58 \\ \hline 38 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <div style="text-align: right; margin-top: 10px;"> <math>\begin{array}{r l} 1 &amp; 1 \\ 2 &amp; 2 \end{array}</math> </div> </div>

# Grade 4

Worksheet, Problem	Original Problem	New Problem																
PM 9, #1	<p>The original problem contained renaming.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p>1.</p> <math display="block">\begin{array}{r} 605 \\ +196 \\ \hline 801 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1</td><td style="padding-left: 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2</td><td style="padding-left: 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">3</td><td style="padding-left: 5px;">3</td></tr> </table> </div>	1	1	2	2	3	3	<p>The new problem does not contain renaming. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p>1.</p> <math display="block">\begin{array}{r} 601 \\ +196 \\ \hline 797 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1</td><td style="padding-left: 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2</td><td style="padding-left: 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">3</td><td style="padding-left: 5px;">3</td></tr> </table> </div>	1	1	2	2	3	3				
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1	1																	
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PM 6, #14	<p>The original problem did not contain a denominator of 2, 3, 4, 5, or 10.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p>14.</p> <math display="block">\frac{3}{6} - \frac{2}{6} =</math> <p style="text-align: center;"><span style="color: red;">←</span> <span style="color: red;">←</span></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1</td><td style="padding-left: 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2</td><td style="padding-left: 5px;">2</td></tr> </table> </div>	1	1	2	2	<p>The new problem contains a denominator of 5. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p>14.</p> <math display="block">\frac{3}{5} - \frac{2}{5} =</math> <p style="text-align: center;"><span style="color: red;">←</span> <span style="color: red;">←</span></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1</td><td style="padding-left: 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2</td><td style="padding-left: 5px;">2</td></tr> </table> </div>	1	1	2	2								
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PM 1, #15	<p>The original problem did not contain renaming from tens to hundreds.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p>15.</p> <math display="block">\begin{array}{r} 914 \\ \times 7 \\ \hline 6398 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1</td><td style="padding-left: 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2</td><td style="padding-left: 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">3</td><td style="padding-left: 5px;">3</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">4</td><td style="padding-left: 5px;">4</td></tr> </table> </div>	1	1	2	2	3	3	4	4	<p>The new problem contains renaming from tens to hundreds. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p>15.</p> <math display="block">\begin{array}{r} 944 \\ \times 7 \\ \hline 6608 \end{array}</math> <p style="text-align: center;"><span style="color: red;">←</span></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1</td><td style="padding-left: 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2</td><td style="padding-left: 5px;">2</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">3</td><td style="padding-left: 5px;">3</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">4</td><td style="padding-left: 5px;">4</td></tr> </table> </div>	1	1	2	2	3	3	4	4
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BM 3, Form A, #20	<p>The original problem did not contain a remainder.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p>20.</p> <math display="block">\begin{array}{r} 145 \\ 3 \overline{)435} \end{array}</math> <p style="text-align: center;"><span style="color: red;">→</span></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1</td><td style="padding-left: 5px;">4</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2</td><td style="padding-left: 5px;">8</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">3</td><td style="padding-left: 5px;">13</td></tr> </table> </div>	1	4	2	8	3	13	<p>The new problem contains a remainder. The points possible for this problem changed.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p>20.</p> <math display="block">\begin{array}{r} 258r1 \\ 3 \overline{)775} \end{array}</math> <p style="text-align: center;"><span style="color: red;">→</span></p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="border-right: 1px solid black; padding-right: 5px;">1</td><td style="padding-left: 5px;">3</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">2</td><td style="padding-left: 5px;">6</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">3</td><td style="padding-left: 5px;">10</td></tr> <tr><td style="border-right: 1px solid black; padding-right: 5px;">4</td><td style="padding-left: 5px;">14</td></tr> </table> </div>	1	3	2	6	3	10	4	14		
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## Grade 4

Worksheet, Problem	Original Problem	New Problem																														
PM 1, #20	<p>The original problem contained divisor that went evenly into the first one or two digits of the dividend.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>20.</p> <math display="block">\begin{array}{r} \xrightarrow{\hspace{2cm}} \\ 106r8 \\ 9 \overline{)962} \end{array}</math> <table style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td> </td><td>2</td></tr> <tr><td>2</td><td> </td><td>5</td></tr> <tr><td>3</td><td> </td><td>8</td></tr> <tr><td>4</td><td> </td><td>11</td></tr> </table> </div>	1		2	2		5	3		8	4		11	<p>The new problem does not contain a divisor that evenly goes into the first one or two digits of the dividend. The points possible for this problem changed.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>20.</p> <math display="block">\begin{array}{r} \xrightarrow{\hspace{2cm}} \\ 69r5 \\ 9 \overline{)626} \end{array}</math> <table style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td> </td><td>3</td></tr> <tr><td>2</td><td> </td><td>6</td></tr> <tr><td>3</td><td> </td><td>10</td></tr> </table> </div>	1		3	2		6	3		10									
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3		10																														
PM 6, #20	<p>The original problem contained divisor that went evenly into the first one or two digits of the dividend.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>20.</p> <math display="block">\begin{array}{r} \xrightarrow{\hspace{2cm}} \\ 126r2 \\ 3 \overline{)380} \end{array}</math> <table style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td> </td><td>3</td></tr> <tr><td>2</td><td> </td><td>6</td></tr> <tr><td>3</td><td> </td><td>9</td></tr> <tr><td>4</td><td> </td><td>13</td></tr> </table> </div>	1		3	2		6	3		9	4		13	<p>The new problem does not contain a divisor that evenly goes into the first one or two digits of the dividend. The points possible for this problem changed.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>20.</p> <math display="block">\begin{array}{r} \xrightarrow{\hspace{2cm}} \\ 254r1 \\ 3 \overline{)763} \end{array}</math> <table style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td> </td><td>3</td></tr> <tr><td>2</td><td> </td><td>6</td></tr> <tr><td>3</td><td> </td><td>10</td></tr> <tr><td>4</td><td> </td><td>14</td></tr> </table> </div>	1		3	2		6	3		10	4		14						
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4		13																														
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3		10																														
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PM 20, #24	<p>The original problem did not contain renaming from tens to hundreds.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>24.</p> <math display="block">\begin{array}{r} 9923 \\ +5157 \\ \hline 15080 \\ \xleftarrow{\hspace{2cm}} \end{array}</math> <table style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td> </td><td>1</td></tr> <tr><td>2</td><td> </td><td>2</td></tr> <tr><td>3</td><td> </td><td>3</td></tr> <tr><td>4</td><td> </td><td>4</td></tr> <tr><td>5</td><td> </td><td>5</td></tr> </table> </div>	1		1	2		2	3		3	4		4	5		5	<p>The new problem contains renaming tens to hundreds. The points possible for this problem did not change.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>24.</p> <math display="block">\begin{array}{r} 9963 \\ +5157 \\ \hline 15120 \\ \xleftarrow{\hspace{2cm}} \end{array}</math> <table style="margin-left: auto; margin-right: auto;"> <tr><td>1</td><td> </td><td>1</td></tr> <tr><td>2</td><td> </td><td>2</td></tr> <tr><td>3</td><td> </td><td>3</td></tr> <tr><td>4</td><td> </td><td>4</td></tr> <tr><td>5</td><td> </td><td>5</td></tr> </table> </div>	1		1	2		2	3		3	4		4	5		5
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## Grade 5

Worksheet, Problem	Original Problem	New Problem
BM 3, Form B, #13	The original problem contained a remainder.  <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;">                         13.  <math display="block">\begin{array}{r} \phantom{0} \rightarrow \\ 22 \overline{) 1780} \\ \underline{80} \phantom{r20} \\ \phantom{0} \phantom{r20} \end{array}</math> <math display="block">\begin{array}{r} 1 \phantom{0}   3 \\ 2 \phantom{0}   6 \\ 3 \phantom{0}   9 \\ 4 \phantom{0}   12 \end{array}</math> </div>	The new problem does not contain a remainder. The points possible for this problem changed.  <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;">                         13.  <math display="block">\begin{array}{r} \phantom{0} \rightarrow \\ 20 \overline{) 5600} \\ \underline{280} \\ \phantom{0} \phantom{0} \end{array}</math> <math display="block">\begin{array}{r} 1 \phantom{0}   5 \\ 2 \phantom{0}   10 \\ 3 \phantom{0}   15 \end{array}</math> </div>
PM 9, #13	The original problem contained a divisor that did not go evenly into the first two or three digits of the dividend.  <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;">                         13.  <math display="block">\begin{array}{r} \phantom{0} \rightarrow \\ 13 \overline{) 9828} \\ \underline{756} \\ \phantom{0} \phantom{0} \end{array}</math> <math display="block">\begin{array}{r} 1 \phantom{0}   4 \\ 2 \phantom{0}   9 \\ 3 \phantom{0}   14 \end{array}</math> </div>	The new problem contains a divisor that goes evenly into the first two or three digits of the dividend. The points possible for this problem changed.  <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;">                         13.  <math display="block">\begin{array}{r} \phantom{0} \rightarrow \\ 13 \overline{) 9750} \\ \underline{750} \\ \phantom{0} \phantom{0} \end{array}</math> <math display="block">\begin{array}{r} 1 \phantom{0}   4 \\ 2 \phantom{0}   8 \\ 3 \phantom{0}   13 \end{array}</math> </div>
PM 5, #14	The original problem contained renaming.  <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;">                         14.  <math display="block">\begin{array}{r} 311 \\ \times 24 \\ \hline 7464 \end{array}</math> <math display="block">\begin{array}{r} 1 \phantom{0}   3 \\ 2 \phantom{0}   6 \\ 3 \phantom{0}   9 \\ 4 \phantom{0}   12 \end{array}</math> </div>	The new problem does not contain renaming. The points possible for this problem changed.  <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;">                         14.  <math display="block">\begin{array}{r} 311 \\ \times 21 \\ \hline 6531 \end{array}</math> <math display="block">\begin{array}{r} 1 \phantom{0}   2 \\ 2 \phantom{0}   5 \\ 3 \phantom{0}   8 \\ 4 \phantom{0}   11 \end{array}</math> </div>