



acadience®math

Computation

Grade 6 | Benchmark Assessment

Teacher Key

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Acadience® Math / Computation Grade 6 Benchmark 1 / Form A / Teacher Key

Scoring Direction

←
Right to Left
or
→
Left to Right

of digits correct
in the final answer | score

<p>1.</p> $\begin{array}{r} 63.7 \\ + 25.2 \\ \hline 88.9 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	<p>2.</p> $\begin{array}{r} 2.93 \\ - 1.61 \\ \hline 1.32 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	<p>3.</p> $\begin{array}{r} 586 \\ \times 78 \\ \hline 45,708 \end{array}$ <p>←</p> <p>1 2 2 5 3 8 4 11 5 14</p>	<p>4.</p> $\begin{array}{r} 190 \\ 38 \overline{) 7220} \end{array}$ <p>→</p> <p>1 5 2 10 3 15</p>	<p>___/37</p>
<p>5.</p> $7 \frac{5}{6} - 4 \frac{6}{9} =$ <p>$3 \frac{1}{6}$ only (9)</p> <p>OR</p> <p>$3 \frac{3}{18}$ or equivalent</p> <p>←</p> <p>1 2 2 4 3 6 4 8</p>	<p>6.</p> $\begin{array}{r} 20.96 \\ + 19.76 \\ \hline 40.72 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4 5 5</p>	<p>7.</p> $\begin{array}{r} 53.70 \\ - 6.89 \\ \hline 46.81 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4 5 5</p>	<p>8.</p> $\begin{array}{r} 31.2 \\ \times 3.1 \\ \hline 96.72 \end{array}$ <p>←</p> <p>1 2 2 4 3 6 4 9 5 12</p>	<p>___/31</p>
<p>9.</p> $\begin{array}{r} 610 \\ 1.2 \overline{) 732} \end{array}$ <p>→</p> <p>1 3 2 6 3 10</p>	<p>10.</p> $\begin{array}{r} 4.96 \\ + 4.06 \\ \hline 9.02 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	<p>11.</p> $\begin{array}{r} 2.7 \\ \times 3 \\ \hline 8.1 \end{array}$ <p>←</p> <p>1 1 2 2 3 3</p>	<p>12.</p> $\begin{array}{r} 199 \\ 25 \overline{) 4975} \end{array}$ <p>→</p> <p>1 6 2 12 3 18</p>	<p>___/35</p>
<p>13.</p> $\begin{array}{r} 9.84 \\ \times 7.2 \\ \hline 70.848 \end{array}$ <p>←</p> <p>1 2 2 4 3 6 4 9 5 12 6 15</p>	<p>14.</p> $\begin{array}{r} .3 \\ 7.6 \overline{) 2.28} \end{array}$ <p>→</p> <p>1 3 2 6</p>	<p>15.</p> $\begin{array}{r} 5.44 \\ - 3.65 \\ \hline 1.79 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	<p>16.</p> $\begin{array}{r} 10.3 \\ 3.1 \overline{) 31.93} \end{array}$ <p>→</p> <p>1 4 2 7 3 10 4 14</p>	<p>___/39</p>

Acadience® Math / Computation Grade 6

Benchmark 1 / Form B / Teacher Key

Scoring Direction

←
Right to Left
or
→
Left to Right

of digits correct
in the final answer | score

1. $\begin{array}{r} 60.1 \\ + 8.2 \\ \hline 68.3 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	2. $\begin{array}{r} 3.29 \\ - 2.18 \\ \hline 1.11 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	3. $\begin{array}{r} 789 \\ \times 78 \\ \hline 61,542 \end{array}$ <p>←</p> <p>1 2 2 5 3 8 4 11 5 14</p>	4. $\begin{array}{r} 30 \\ 53 \overline{)1590} \end{array}$ <p>→</p> <p>1 4 2 9</p>
5. $9 \frac{7}{9} - 4 \frac{2}{3} =$ <p>5 ← $\frac{1}{9}$ or equivalent</p> <p>1 2 2 4 3 7</p>	6. $\begin{array}{r} 38.63 \\ + 24.58 \\ \hline 63.21 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4 5 5</p>	7. $\begin{array}{r} 33.64 \\ - 6.85 \\ \hline 26.79 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4 5 5</p>	8. $\begin{array}{r} 42.3 \\ \times 2.1 \\ \hline 88.83 \end{array}$ <p>←</p> <p>1 2 2 4 3 6 4 9 5 12</p>
9. $\begin{array}{r} 50 \\ 3.5 \overline{)175} \end{array}$ <p>→</p> <p>1 3 2 6</p>	10. $\begin{array}{r} 3.68 \\ + 3.37 \\ \hline 7.05 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	11. $\begin{array}{r} 4.9 \\ \times 2 \\ \hline 9.8 \end{array}$ <p>←</p> <p>1 1 2 2 3 3</p>	12. $\begin{array}{r} 225 \\ 31 \overline{)6975} \end{array}$ <p>→</p> <p>1 5 2 10 3 16</p>
13. $\begin{array}{r} 2.76 \\ \times 8.6 \\ \hline 23.736 \end{array}$ <p>←</p> <p>1 2 2 4 3 6 4 9 5 12 6 15</p>	14. $\begin{array}{r} 1.8 \\ 4.7 \overline{)8.46} \end{array}$ <p>→</p> <p>1 4 2 8 3 12</p>	15. $\begin{array}{r} 6.82 \\ - 1.97 \\ \hline 4.85 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	16. $\begin{array}{r} 10.7 \\ 1.3 \overline{)13.91} \end{array}$ <p>→</p> <p>1 4 2 7 3 10 4 14</p>

___/31

___/29

___/29

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**Acadience® Math / Computation Grade 6
Benchmark 2 / Form A / Teacher Key**

Scoring Direction

←
Right to Left
or
→
Left to Right

# of digits correct in the final answer	score
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1.

$$\begin{array}{r} 83.6 \\ + 4.1 \\ \hline 87.7 \end{array}$$

←

1	1
2	2
3	3
4	4

2.

$$\begin{array}{r} 6.75 \\ - 5.73 \\ \hline 1.02 \end{array}$$

←

1	1
2	2
3	3
4	4

3.

$$\begin{array}{r} 283 \\ \times 57 \\ \hline 16,131 \end{array}$$

←

1	2
2	5
3	8
4	11
5	14

4.

$$\begin{array}{r} 70 \\ 73 \overline{) 5110} \end{array}$$

→

1	4
2	9

____/31

5.

$$9 \frac{2}{3} - 5 \frac{5}{9} =$$

4 $\frac{1}{9}$ or equivalent
←

1	2
2	4
3	7

6.

$$\begin{array}{r} 58.74 \\ + 19.66 \\ \hline 78.40 \end{array}$$

←

1	1
2	2
3	3
4	4
5	5

7.

$$\begin{array}{r} 71.42 \\ - 2.83 \\ \hline 68.59 \end{array}$$

←

1	1
2	2
3	3
4	4
5	5

8.

$$\begin{array}{r} 13.2 \\ \times 2.1 \\ \hline 27.72 \end{array}$$

←

1	2
2	4
3	6
4	9
5	12

____/29

9.

$$\begin{array}{r} 150 \\ 3.9 \overline{) 585} \end{array}$$

→

1	4
2	8
3	12

10.

$$\begin{array}{r} 6.56 \\ + 1.79 \\ \hline 8.35 \end{array}$$

←

1	1
2	2
3	3
4	4

11.

$$\begin{array}{r} 4.6 \\ \times 7 \\ \hline 32.2 \end{array}$$

←

1	1
2	2
3	3
4	4

12.

$$\begin{array}{r} 156 \\ 47 \overline{) 7332} \end{array}$$

→

1	6
2	12
3	18

____/38

13.

$$\begin{array}{r} 5.46 \\ \times 2.5 \\ \hline 13.650 \end{array}$$

←

1	2
2	4
3	6
4	9
5	12
6	15

14.

$$\begin{array}{r} 3.6 \\ 2.1 \overline{) 7.56} \end{array}$$

→

1	4
2	8
3	12

15.

$$\begin{array}{r} 9.43 \\ - 3.48 \\ \hline 5.95 \end{array}$$

←

1	1
2	2
3	3
4	4

16.

$$\begin{array}{r} 10.3 \\ 2.6 \overline{) 26.78} \end{array}$$

→

1	4
2	7
3	10
4	14

____/45

**Acadience® Math / Computation Grade 6
Benchmark 2 / Form B / Teacher Key**

Scoring Direction

←
Right to Left
or
→
Left to Right

# of digits correct in the final answer	score
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<p>1.</p> $\begin{array}{r} 73.5 \\ + 1.3 \\ \hline 74.8 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> </table> </p>	1	1	2	2	3	3	4	4	<p>2.</p> $\begin{array}{r} 7.83 \\ - 2.82 \\ \hline 5.01 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> </table> </p>	1	1	2	2	3	3	4	4	<p>3.</p> $\begin{array}{r} 748 \\ \times 56 \\ \hline 41,888 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>5</td></tr> <tr><td>3</td><td>8</td></tr> <tr><td>4</td><td>11</td></tr> <tr><td>5</td><td>14</td></tr> </table> </p>	1	2	2	5	3	8	4	11	5	14	<p>4.</p> $\begin{array}{r} 110 \\ 26 \overline{) 2860} \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>4</td></tr> <tr><td>2</td><td>8</td></tr> <tr><td>3</td><td>13</td></tr> </table> </p>	1	4	2	8	3	13	___/35		
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3	13																																					
<p>5.</p> $6 \frac{2}{3} - 3 \frac{1}{2} =$ <p> $3 \frac{1}{6}$ or equivalent </p> <p align="right"> <table border="1"> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>7</td></tr> </table> </p>	1	2	2	4	3	7	<p>6.</p> $\begin{array}{r} 39.99 \\ + 28.59 \\ \hline 68.58 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> <tr><td>5</td><td>5</td></tr> </table> </p>	1	1	2	2	3	3	4	4	5	5	<p>7.</p> $\begin{array}{r} 11.37 \\ - 2.69 \\ \hline 8.68 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> </table> </p>	1	1	2	2	3	3	4	4	<p>8.</p> $\begin{array}{r} 12.3 \\ \times 2.1 \\ \hline 25.83 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>6</td></tr> <tr><td>4</td><td>9</td></tr> <tr><td>5</td><td>12</td></tr> </table> </p>	1	2	2	4	3	6	4	9	5	12	___/28
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5	12																																					
<p>9.</p> $\begin{array}{r} 210 \\ 4.5 \overline{) 945} \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>6</td></tr> <tr><td>3</td><td>10</td></tr> </table> </p>	1	3	2	6	3	10	<p>10.</p> $\begin{array}{r} 5.59 \\ + 3.47 \\ \hline 9.06 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> </table> </p>	1	1	2	2	3	3	4	4	<p>11.</p> $\begin{array}{r} 9.8 \\ \times 3 \\ \hline 29.4 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> </table> </p>	1	1	2	2	3	3	4	4	<p>12.</p> $\begin{array}{r} 39 \\ 26 \overline{) 1014} \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>5</td></tr> <tr><td>2</td><td>11</td></tr> </table> </p>	1	5	2	11	___/29								
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<p>13.</p> $\begin{array}{r} 4.83 \\ \times 9.7 \\ \hline 46.851 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>6</td></tr> <tr><td>4</td><td>9</td></tr> <tr><td>5</td><td>12</td></tr> <tr><td>6</td><td>15</td></tr> </table> </p>	1	2	2	4	3	6	4	9	5	12	6	15	<p>14.</p> $\begin{array}{r} .7 \\ 6.3 \overline{) 4.41} \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>6</td></tr> </table> </p>	1	3	2	6	<p>15.</p> $\begin{array}{r} 3.53 \\ - 1.78 \\ \hline 1.75 \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> </table> </p>	1	1	2	2	3	3	4	4	<p>16.</p> $\begin{array}{r} 10.5 \\ 1.5 \overline{) 15.75} \end{array}$ <p align="right"> <table border="1"> <tr><td>1</td><td>4</td></tr> <tr><td>2</td><td>7</td></tr> <tr><td>3</td><td>10</td></tr> <tr><td>4</td><td>14</td></tr> </table> </p>	1	4	2	7	3	10	4	14	___/39		
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4	14																																					

**Acadience® Math / Computation Grade 6
Benchmark 3 / Form A / Teacher Key**

Scoring Direction

←
Right to Left
or
→
Left to Right

# of digits correct in the final answer	score
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<p>1.</p> $\begin{array}{r} 32.7 \\ + 17.1 \\ \hline 49.8 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>2.</p> $\begin{array}{r} 5.68 \\ - 3.46 \\ \hline 2.22 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>3.</p> $\begin{array}{r} 837 \\ \times 25 \\ \hline 20,925 \end{array}$ <p align="right">1 2 2 5 3 8 4 11 5 14</p>	<p>4.</p> $\begin{array}{r} 30 \\ 41 \overline{)1230} \end{array}$ <p align="right">1 4 2 9</p>	___/31
<p>5.</p> $4\frac{6}{10} + 5\frac{1}{5} =$ <p>9 $\frac{4}{5}$ only (9)</p> <p>OR</p> <p>9 $\frac{8}{10}$ or equivalent</p> <p align="right">1 2 2 4 3 6 4 8</p>	<p>6.</p> $\begin{array}{r} 38.57 \\ + 24.58 \\ \hline 63.15 \end{array}$ <p align="right">1 1 2 2 3 3 4 4 5 5</p>	<p>7.</p> $\begin{array}{r} 63.41 \\ - 9.93 \\ \hline 53.48 \end{array}$ <p align="right">1 1 2 2 3 3 4 4 5 5</p>	<p>8.</p> $\begin{array}{r} 32.4 \\ \times 1.2 \\ \hline 38.88 \end{array}$ <p align="right">1 2 2 4 3 6 4 9 5 12</p>	___/31
<p>9.</p> $\begin{array}{r} 310 \\ 2.7 \overline{)837} \end{array}$ <p align="right">1 3 2 6 3 10</p>	<p>10.</p> $\begin{array}{r} 6.78 \\ + 1.85 \\ \hline 8.63 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>11.</p> $\begin{array}{r} 2.6 \\ \times 6 \\ \hline 15.6 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>12.</p> $\begin{array}{r} 96 \\ 21 \overline{)2016} \end{array}$ <p align="right">1 6 2 12</p>	___/30
<p>13.</p> $\begin{array}{r} 6.95 \\ \times 7.3 \\ \hline 50.735 \end{array}$ <p align="right">1 2 2 4 3 6 4 9 5 12 6 15</p>	<p>14.</p> $\begin{array}{r} .6 \\ 4.7 \overline{)2.82} \end{array}$ <p align="right">1 3 2 6</p>	<p>15.</p> $\begin{array}{r} 5.13 \\ - 2.79 \\ \hline 2.34 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>16.</p> $\begin{array}{r} 10.3 \\ 3.1 \overline{)31.93} \end{array}$ <p align="right">1 4 2 7 3 10 4 14</p>	___/39

Acadience® Math / Computation Grade 6

Benchmark 3 / Form B / Teacher Key

Scoring Direction

←
Right to Left
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of digits correct
in the final answer | score

<p>1.</p> $\begin{array}{r} 73.5 \\ + 13.4 \\ \hline 86.9 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	<p>2.</p> $\begin{array}{r} 6.63 \\ - 3.51 \\ \hline 3.12 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	<p>3.</p> $\begin{array}{r} 632 \\ \times 97 \\ \hline 61,304 \end{array}$ <p>←</p> <p>1 2 2 5 3 8 4 11 5 14</p>	<p>4.</p> $\begin{array}{r} 110 \\ 36 \overline{) 3960} \end{array}$ <p>→</p> <p>1 4 2 8 3 13</p>	<p>5.</p> $8\frac{5}{6} - 5\frac{4}{12} =$ <p>$3\frac{1}{2}$ only (9)</p> <p>OR</p> <p>$3\frac{6}{12}$ or equivalent</p> <p>←</p> <p>1 2 2 4 3 6 4 8</p>	<p>6.</p> $\begin{array}{r} 17.64 \\ + 12.86 \\ \hline 30.50 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4 5 5</p>	<p>7.</p> $\begin{array}{r} 81.36 \\ - 8.79 \\ \hline 72.57 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4 5 5</p>	<p>8.</p> $\begin{array}{r} 21.3 \\ \times 2.3 \\ \hline 48.99 \end{array}$ <p>←</p> <p>1 2 2 4 3 6 4 9 5 12</p>	<p>9.</p> $\begin{array}{r} 320 \\ 1.4 \overline{) 448} \end{array}$ <p>→</p> <p>1 3 2 6 3 10</p>	<p>10.</p> $\begin{array}{r} 3.56 \\ + 2.54 \\ \hline 6.10 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	<p>11.</p> $\begin{array}{r} 3.2 \\ \times 9 \\ \hline 28.8 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	<p>12.</p> $\begin{array}{r} 114 \\ 39 \overline{) 4446} \end{array}$ <p>→</p> <p>1 5 2 10 3 16</p>	<p>13.</p> $\begin{array}{r} 2.42 \\ \times 5.7 \\ \hline 13.794 \end{array}$ <p>←</p> <p>1 2 2 4 3 6 4 9 5 12 6 15</p>	<p>14.</p> $\begin{array}{r} 1.2 \\ 2.3 \overline{) 2.76} \end{array}$ <p>→</p> <p>1 4 2 8 3 12</p>	<p>15.</p> $\begin{array}{r} 8.15 \\ - 2.67 \\ \hline 5.48 \end{array}$ <p>←</p> <p>1 1 2 2 3 3 4 4</p>	<p>16.</p> $\begin{array}{r} 40.2 \\ 1.9 \overline{) 76.38} \end{array}$ <p>→</p> <p>1 4 2 7 3 10 4 14</p>
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