

acadience™ math

Computation

Grade 6 | Benchmark Assessment

Teacher Key



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These are photocopy masters for teacher keys. Make one copy for each person scoring the assessment.

**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

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

Acadience™ Math / Computation Grade 6
Benchmark 1 / Form B / Teacher Key

Scoring Direction

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Right to Left
or
→
Left to Right

of digits correct
in the final answer | score

<p>1.</p> $\begin{array}{r} 60.1 \\ + 8.2 \\ \hline 68.3 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>2.</p> $\begin{array}{r} 3.29 \\ - 2.18 \\ \hline 1.11 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>3.</p> $\begin{array}{r} 789 \\ \times 78 \\ \hline 61,542 \end{array}$ <p align="right">1 2 2 5 3 8 4 11 5 14</p>	<p>4.</p> $\begin{array}{r} 30 \\ 53 \overline{)1590} \end{array}$ <p align="right">1 4 2 9</p>	___/31
<p>5.</p> $9\frac{7}{9} - 4\frac{2}{3} =$ <p>5 ← $\frac{1}{9}$ or equivalent</p> <p align="right">1 2 2 4 3 7</p>	<p>6.</p> $\begin{array}{r} 38.63 \\ + 24.58 \\ \hline 63.21 \end{array}$ <p align="right">1 1 2 2 3 3 4 4 5 5</p>	<p>7.</p> $\begin{array}{r} 33.64 \\ - 6.85 \\ \hline 26.79 \end{array}$ <p align="right">1 1 2 2 3 3 4 4 5 5</p>	<p>8.</p> $\begin{array}{r} 42.3 \\ \times 2.1 \\ \hline 88.83 \end{array}$ <p align="right">1 2 2 4 3 6 4 9 5 12</p>	___/29
<p>9.</p> $\begin{array}{r} 50 \\ 3.5 \overline{)175} \end{array}$ <p align="right">1 3 2 6</p>	<p>10.</p> $\begin{array}{r} 3.68 \\ + 3.37 \\ \hline 7.05 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>11.</p> $\begin{array}{r} 4.9 \\ \times 2 \\ \hline 9.8 \end{array}$ <p align="right">1 1 2 2 3 3</p>	<p>12.</p> $\begin{array}{r} 225 \\ 31 \overline{)6975} \end{array}$ <p align="right">1 5 2 10 3 16</p>	___/29
<p>13.</p> $\begin{array}{r} 2.76 \\ \times 8.6 \\ \hline 23.736 \end{array}$ <p align="right">1 2 2 4 3 6 4 9 5 12 6 15</p>	<p>14.</p> $\begin{array}{r} 1.8 \\ 4.7 \overline{)8.46} \end{array}$ <p align="right">1 4 2 8 3 12</p>	<p>15.</p> $\begin{array}{r} 6.82 \\ - 1.97 \\ \hline 4.85 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>16.</p> $\begin{array}{r} 10.7 \\ 1.3 \overline{)13.91} \end{array}$ <p align="right">1 4 2 7 3 10 4 14</p>	___/45

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

Scoring Direction

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Left to Right

of digits correct
in the final answer | score

<p>1.</p> $\begin{array}{r} 83.6 \\ + 4.1 \\ \hline 87.7 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>2.</p> $\begin{array}{r} 6.75 \\ - 5.73 \\ \hline 1.02 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>3.</p> $\begin{array}{r} 283 \\ \times 57 \\ \hline 16,131 \end{array}$ <p align="right">1 2 2 5 3 8 4 11 5 14</p>	<p>4.</p> $\begin{array}{r} 70 \\ 73 \overline{) 5110} \end{array}$ <p align="right">1 4 2 9</p>	___/31
<p>5.</p> $9\frac{2}{3} - 5\frac{5}{9} =$ <p>4 $\frac{1}{9}$ or equivalent</p> <p align="right">1 2 2 4 3 7</p>	<p>6.</p> $\begin{array}{r} 58.74 \\ + 19.66 \\ \hline 78.40 \end{array}$ <p align="right">1 1 2 2 3 3 4 4 5 5</p>	<p>7.</p> $\begin{array}{r} 71.42 \\ - 2.83 \\ \hline 68.59 \end{array}$ <p align="right">1 1 2 2 3 3 4 4 5 5</p>	<p>8.</p> $\begin{array}{r} 13.2 \\ \times 2.1 \\ \hline 27.72 \end{array}$ <p align="right">1 2 2 4 3 6 4 9 5 12</p>	___/29
<p>9.</p> $\begin{array}{r} 150 \\ 3.9 \overline{) 585} \end{array}$ <p align="right">1 4 2 8 3 12</p>	<p>10.</p> $\begin{array}{r} 6.56 \\ + 1.79 \\ \hline 8.35 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>11.</p> $\begin{array}{r} 4.6 \\ \times 7 \\ \hline 32.2 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>12.</p> $\begin{array}{r} 156 \\ 47 \overline{) 7332} \end{array}$ <p align="right">1 6 2 12 3 18</p>	___/38
<p>13.</p> $\begin{array}{r} 5.46 \\ \times 2.5 \\ \hline 13.650 \end{array}$ <p align="right">1 2 2 4 3 6 4 9 5 12 6 15</p>	<p>14.</p> $\begin{array}{r} 3.6 \\ 2.1 \overline{) 7.56} \end{array}$ <p align="right">1 4 2 8 3 12</p>	<p>15.</p> $\begin{array}{r} 9.43 \\ - 3.48 \\ \hline 5.95 \end{array}$ <p align="right">1 1 2 2 3 3 4 4</p>	<p>16.</p> $\begin{array}{r} 10.3 \\ 2.6 \overline{) 26.78} \end{array}$ <p align="right">1 4 2 7 3 10 4 14</p>	___/45

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

Scoring Direction

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of digits correct
in the final answer | score

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

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

Scoring Direction

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Right to Left
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Left to Right

of digits correct
in the final answer | score

<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

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Right to Left
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Left to Right

of digits correct
in the final answer | score

<p>1.</p> $\begin{array}{r} 73.5 \\ + 13.4 \\ \hline 86.9 \end{array}$ <p align="right">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 align="right">1 1 2 2 3 3 4 4</p>	<p>3.</p> $\begin{array}{r} 632 \\ \times 97 \\ \hline 61,304 \end{array}$ <p align="right">1 2 2 5 3 8 4 11 5 14</p>	<p>4.</p> $\begin{array}{r} 110 \\ 36 \overline{) 3960} \end{array}$ <p align="right">1 4 2 8 3 13</p>	___/35
<p>5.</p> $8\frac{5}{6} - 5\frac{4}{12} =$ <p>$3\frac{1}{2}$ (only) (9)</p> <p>OR $3\frac{6}{12}$ or equivalent</p> <p align="right">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 align="right">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 align="right">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 align="right">1 2 2 4 3 6 4 9 5 12</p>	___/31
<p>9.</p> $\begin{array}{r} 320 \\ 1.4 \overline{) 448} \end{array}$ <p align="right">1 3 2 6 3 10</p>	<p>10.</p> $\begin{array}{r} 3.56 \\ + 2.54 \\ \hline 6.10 \end{array}$ <p align="right">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 align="right">1 1 2 2 3 3 4 4</p>	<p>12.</p> $\begin{array}{r} 114 \\ 39 \overline{) 4446} \end{array}$ <p align="right">1 5 2 10 3 16</p>	___/34
<p>13.</p> $\begin{array}{r} 2.42 \\ \times 5.7 \\ \hline 13.794 \end{array}$ <p align="right">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 align="right">1 4 2 8 3 12</p>	<p>15.</p> $\begin{array}{r} 8.15 \\ - 2.67 \\ \hline 5.48 \end{array}$ <p align="right">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 align="right">1 4 2 7 3 10 4 14</p>	___/45