Focused Practice for Math Mastery

- Fractions and decimals
- Perimeter, area, and volume
- Classifying geometric figures
- Preparing for algebra
- Graphing on the coordinate plane
- Answer key
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• Launch the scanning app on your device.
• Scan the code, which will bring you to the Spectrum Math, Grade 5 website.
• Select the video that matches the title from your workbook page.

All videos are also available at carsondellosa.com/math-5 and www.youtube.com/user/CarsonDellosaPub.
# Table of Contents  
## Grade 5

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Pretest</th>
<th>Lessons</th>
<th>Posttest</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>Multiplying and Dividing Whole Numbers</td>
<td>Chapter 1</td>
<td>Lessons 1–5</td>
<td>Chapter 1 Posttest</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.5</td>
<td>.7–12</td>
<td>.13</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>Understanding Place Value</td>
<td>Chapter 2</td>
<td>Lessons 1–10</td>
<td>Chapter 2 Posttest</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.15</td>
<td>.17–26</td>
<td>.27</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>Using Decimals</td>
<td>Chapter 3</td>
<td>Lessons 1–13</td>
<td>Chapter 3 Posttest</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.29</td>
<td>.31–43</td>
<td>.44</td>
</tr>
<tr>
<td><strong>4</strong></td>
<td>Understanding Fractions</td>
<td>Chapter 4</td>
<td>Lessons 1–11</td>
<td>Chapter 4 Posttest</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.46</td>
<td>.48–58</td>
<td>.59</td>
</tr>
<tr>
<td><strong>5</strong></td>
<td>Adding and Subtracting Fractions</td>
<td>Chapter 5</td>
<td>Lessons 1–6</td>
<td>Chapter 5 Posttest</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.61</td>
<td>.63–73</td>
<td>.74</td>
</tr>
<tr>
<td><strong>1–5</strong></td>
<td>Mid-Test</td>
<td>Chapters 1–5 Mid-Test</td>
<td></td>
<td>.76</td>
</tr>
</tbody>
</table>
Chapter 6  Multiplying and Dividing Fractions
Chapter 6 Pretest ................................................................. 80
Lessons 1–7 ................................................................. 82–90
Chapter 6 Posttest ................................................................. 91

Chapter 7  Understanding Mathematical Expressions
Chapter 7 Pretest ................................................................. 93
Lessons 1–5 ................................................................. 95–102
Chapter 7 Posttest ................................................................. 103

Chapter 8  Measurement Concepts
Chapter 8 Pretest ................................................................. 105
Lessons 1–9 ................................................................. 107–120
Chapter 8 Posttest ................................................................. 121

Chapter 9  Geometry
Chapter 9 Pretest ................................................................. 123
Lessons 1–5 ................................................................. 125–130
Chapter 9 Posttest ................................................................. 131

Chapter 10  Graphing
Chapter 10 Pretest ................................................................. 133
Lessons 1–3 ................................................................. 135–139
Chapter 10 Posttest ................................................................. 140

Chapters 1–10 Final Test ................................................................. 142

Scoring Record for Posttests, Mid-Test, and Final Test ................................................................. 147
Grade 5 Answers ................................................................. 148–160
Multiply.

1. \( \begin{array}{c}
        \times \ 35 \\
        49 \\
        \end{array} \quad \begin{array}{c}
        \times \ 22 \\
        380 \\
        \end{array} \quad \begin{array}{c}
        \times \ 32 \\
        816 \\
        \end{array} \quad \begin{array}{c}
        \times \ 80 \\
        276 \\
        \end{array} \)

2. \( \begin{array}{c}
        \times \ 52 \\
        2714 \\
        \end{array} \quad \begin{array}{c}
        \times \ 16 \\
        5216 \\
        \end{array} \quad \begin{array}{c}
        \times \ 402 \\
        177 \\
        \end{array} \quad \begin{array}{c}
        \times \ 321 \\
        818 \\
        \end{array} \)

3. \( \begin{array}{c}
        \times \ 176 \\
        445 \\
        \end{array} \quad \begin{array}{c}
        \times \ 634 \\
        3420 \\
        \end{array} \quad \begin{array}{c}
        \times \ 382 \\
        5867 \\
        \end{array} \quad \begin{array}{c}
        \times \ 257 \\
        6334 \\
        \end{array} \)

Divide.

4. \( \begin{array}{c}
        3 \longdiv{762} \\
        7 \longdiv{423} \\
        72 \longdiv{216} \\
        33 \longdiv{594} \\
        \end{array} \)

5. \( \begin{array}{c}
        24 \longdiv{671} \\
        63 \longdiv{887} \\
        45 \longdiv{6075} \\
        89 \longdiv{3299} \\
        \end{array} \)

6. \( \begin{array}{c}
        92 \longdiv{8147} \\
        14 \longdiv{3315} \\
        76 \longdiv{2647} \\
        17 \longdiv{8451} \\
        \end{array} \)
Check What You Know

Multiplying and Dividing Whole Numbers

Solve each problem.

7. A video game company can fit 535 boxes of games into a truck. If the company has 47 full trucks, how many games does it have total?
   The company has ___________ games total.

8. Sally bought 1,425 crayons that came in packs of 15. How many packs of crayons did Sally buy?
   Sally bought ___________ packs.

9. Each day, 1,035 new apps are uploaded to a web server. After 28 days, how many apps would have been uploaded?
   ___________ apps would have been uploaded.

10. An art museum has 1,042 pictures to split equally into 45 different exhibits. How many more pictures does the museum need to make sure each exhibit has the same amount?
    The museum needs ___________ more pictures.

11. Robin is making bead necklaces. She wants to use 717 beads to make 57 necklaces. If she wants each necklace to have the same number of beads, how many beads will she have left over?
    She will have ___________ beads left over.

12. Each day, the gum ball machine in the mall sells 919 gum balls. How many gum balls would it have sold after 160 days?
    It would have sold ___________ gumballs.
### Lesson 1.1 Multiplying 2 and 3 Digits by 2 Digits

Multiply right to left.

- If $24 \times 3 = 72$, then $24 \times 30 = 720$.

Multiply right to left.

- $24 \times 37 = 888$
- $427 \times 61 = 26,047$

#### Multiply.

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<thead>
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<th>c</th>
<th>d</th>
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<tr>
<td></td>
<td>$\times 42$</td>
<td>$\times 12$</td>
<td>$\times 28$</td>
<td>$\times 91$</td>
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<td>2.</td>
<td>24</td>
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<td>96</td>
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<td>$\times 87$</td>
<td>$\times 54$</td>
<td>$\times 32$</td>
<td>$\times 47$</td>
<td>$\times 79$</td>
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<tr>
<td>3.</td>
<td>26</td>
<td>39</td>
<td>44</td>
<td>473</td>
<td>856</td>
<td>375</td>
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<tr>
<td></td>
<td>$\times 53$</td>
<td>$\times 74$</td>
<td>$\times 81$</td>
<td>$\times 64$</td>
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<tr>
<td>4.</td>
<td>838</td>
<td>266</td>
<td>372</td>
<td>659</td>
<td>428</td>
<td>235</td>
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<tr>
<td></td>
<td>$\times 58$</td>
<td>$\times 93$</td>
<td>$\times 46$</td>
<td>$\times 78$</td>
<td>$\times 37$</td>
<td>$\times 86$</td>
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<tr>
<td>5.</td>
<td>907</td>
<td>415</td>
<td>364</td>
<td>547</td>
<td>739</td>
<td>697</td>
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<td>$\times 33$</td>
<td>$\times 27$</td>
<td>$\times 82$</td>
<td>$\times 54$</td>
<td>$\times 62$</td>
<td>$\times 76$</td>
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</tbody>
</table>
Lesson 1.2  Multiplying 4 Digits by 1 and 2 Digits

Multiply from right to left.

\[ 2 \times 7 = 14 + 2 = 16 \]
\[ 3 \times 7 = 21 + 1 = 22 \]
\[ 6 \times 7 = 42 \]
\[ 3 \times 7 = 21 + 4 = 25 \]
\[ 7 \times 1 = 7 \]
\[ 7198 \times 14 = 28792 \]
\[ 71980 \times 10 = 71980 \]

If 7,198 × 1 = 7,198, then 7,198 × 10 = 71,980.

Multiply.

<table>
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<tr>
<th></th>
<th>a</th>
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<th>b</th>
<th></th>
<th>c</th>
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<td>× 7</td>
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<td>× 4</td>
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<td>3962</td>
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<td>1854</td>
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<td>× 4</td>
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<td>× 9</td>
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<td></td>
<td>× 3</td>
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<td>× 2</td>
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<td>× 28</td>
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<td></td>
<td>× 27</td>
<td></td>
<td>× 54</td>
<td></td>
<td>× 83</td>
<td></td>
<td>× 72</td>
<td></td>
<td>× 56</td>
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</tr>
</tbody>
</table>
Lesson 1.3 Dividing 3 Digits by 2 Digits

\[ \frac{71}{14} = 5 \quad \text{remainder 1} \]
\[ \frac{18}{14} = 1 \quad \text{remainder 4} \]

\[ \begin{array}{c}
14)718 \\
\underline{-70} \\
18 \\
\end{array} \]

\[ \begin{array}{c}
14)718 \\
\underline{-70} \\
18 \\
\end{array} \]

\[ \frac{51}{718} \quad \frac{51}{718} \quad \frac{51}{718} \]

The quotient is 51.
The remainder is 4.

Divide.

<table>
<thead>
<tr>
<th></th>
<th>a</th>
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<th>c</th>
<th>d</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>23)264</td>
<td>32)571</td>
<td>81)724</td>
<td>52)328</td>
</tr>
<tr>
<td>2</td>
<td>61)488</td>
<td>35)175</td>
<td>82)362</td>
<td>47)719</td>
</tr>
<tr>
<td>3</td>
<td>97)891</td>
<td>26)423</td>
<td>43)916</td>
<td>57)649</td>
</tr>
</tbody>
</table>
Lesson 1.4 Dividing 4 Digits by 2 Digits

51 ÷ 23 = 2

\[
\begin{array}{c}
2 \\
\hline
23 \overline{)51 \, 7} \\
23 \\
\hline
28 \\
23 \\
\hline
5 \\
\end{array}
\]

remainder 5

57 ÷ 23 = 2

\[
\begin{array}{c}
22 \\
\hline
23 \overline{)51 \, 7} \\
23 \\
\hline
28 \\
23 \\
\hline
5 \\
\end{array}
\]

remainder 11

113 ÷ 23 = 4

\[
\begin{array}{c}
224 \\
\hline
23 \overline{)51 \, 7} \\
23 \\
\hline
28 \\
23 \\
\hline
5 \\
\end{array}
\]

remainder 21

\[
\begin{array}{c}
224 \, r \, 21 \\
\hline
23 \overline{)51 \, 7} \\
23 \\
\hline
28 \\
23 \\
\hline
5 \\
\end{array}
\]

23 × 2 = 46

\[
\begin{array}{c}
57 \\
\hline
23 \overline{)46} \\
23 \\
\hline
13 \\
\end{array}
\]

− 46

113

The quotient is 224.
The remainder is 21.

\[
\begin{array}{c}
224 \, r \, 21 \\
\hline
23 \overline{)51 \, 7} \\
23 \\
\hline
28 \\
23 \\
\hline
5 \\
\end{array}
\]

23 × 2 = 46

\[
\begin{array}{c}
23 \overline{)51 \, 7} \\
23 \\
\hline
28 \\
23 \\
\hline
5 \\
\end{array}
\]

− 46

113

23 × 2 = 46

\[
\begin{array}{c}
23 \overline{)51 \, 7} \\
23 \\
\hline
28 \\
23 \\
\hline
5 \\
\end{array}
\]

− 46

113

\[
\begin{array}{c}
224 \, r \, 21 \\
\hline
23 \overline{)51 \, 7} \\
23 \\
\hline
28 \\
23 \\
\hline
5 \\
\end{array}
\]

The quotient is 224.
The remainder is 21.

The quotient is 224.
The remainder is 21.
Solve each problem.

1. At the Bead Shop, there are 25 rows of beads. If there are 320 beads in each row, how many beans are in the shop?

   There are _______________ beads in the shop.

2. The cafeteria planned to bake 3 cookies for every student in the school. If there are 715 students, how many cookies does the cafeteria need to bake?

   The cafeteria needs to bake _______________ cookies.

3. A group of 123 students went on a field trip to collect seashells. If the students collected 15 shells each, how many shells did they collect?

   The students collected _______________ shells.

4. A girls’ club is trying to get into the record books for the most hair braids. There are 372 girls. If each girl braids her hair into 40 little braids, how many braids will they have?

   They will have _______________ braids.

5. A school bought 831 boxes of computer paper for the computer lab. Each box had 59 sheets of paper inside it. How many sheets of paper were bought in total?

   The school bought _______________ sheets of paper.

6. A vat of orange juice contains the juice from 231 oranges. If a company has 611 vats, how many oranges would it need to fill them all?

   The company would need _______________ oranges.
Solve each problem.

1. The Pancake Restaurant served 384 pancakes. If 87 customers ate an equal number of pancakes, how many did each person eat?

Each person ate ______________ pancakes.

2. Gary opened a bag of candy containing 126 pieces. He wants to give each of his guests the same number of pieces. If he has 42 guests, how many pieces does each person get?

Each guest gets ______________ pieces.

3. At the local fair, 358 people waited in line for a boat ride. The boat can hold 8 people. How many trips will the boat have to take for everyone to get a ride?

The boat will have to take ______________ trips.

4. Cafeteria workers were putting milk cartons into crates. They had 1,052 cartons and 36 cartons in each crate. How many full crates did they end up with?

They ended up with ______________ full crates.

5. A machine in a candy company creates 9,328 pieces of candy each hour. If a box of candy has 98 pieces in it, how many boxes does the machine make in one hour?

The machine makes ______________ boxes each hour.

6. Oliver was trying to beat his old score of 1,842 points in a video game. If he scores exactly 85 points each round, how many rounds would he need to play to beat his old score?

Oliver should play ______________ rounds.
**Check What You Learned**

### Multiplying and Dividing Whole Numbers

#### Multiply.

<table>
<thead>
<tr>
<th></th>
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<th>b</th>
<th></th>
<th>c</th>
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<th>d</th>
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<tbody>
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<td>1.</td>
<td>280</td>
<td>× 93</td>
<td>814</td>
<td>× 37</td>
<td>497</td>
<td>× 48</td>
<td>6492</td>
<td>× 82</td>
</tr>
<tr>
<td>2.</td>
<td>2158</td>
<td>× 32</td>
<td>8291</td>
<td>× 54</td>
<td>212</td>
<td>× 561</td>
<td>394</td>
<td>× 627</td>
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<tr>
<td>3.</td>
<td>4176</td>
<td>× 283</td>
<td>9192</td>
<td>× 562</td>
<td>7315</td>
<td>× 141</td>
<td>5639</td>
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#### Divide.

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<th>6.</th>
<th>5.</th>
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<tr>
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<td>4)8676</td>
<td>49)392</td>
<td>34)2589</td>
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<td>5.</td>
<td>72)745</td>
<td>45)213</td>
<td>61)1708</td>
<td>94)4649</td>
</tr>
<tr>
<td>6.</td>
<td>52)9243</td>
<td>68)3174</td>
<td>16)4236</td>
<td>81)2748</td>
</tr>
</tbody>
</table>
Solve each problem.

7. The park’s sprinklers can spray 1,748 gallons of water on the grass in 38 minutes. How many gallons can they spray in one minute?

They can spray ____________ gallons per minute.

8. The auto factory will build 1,408 new trucks in the next 32 days. How many will it build in one day?

It will build ____________ trucks each day.

9. Pizza Depot will open 31 new restaurants next year. Each restaurant will need 27 employees. How many employees will Pizza Depot need to hire for the new restaurants?

Pizza Depot will need to hire ____________ employees.

10. The parking lot has 1,326 spaces to hold cars. The lot is divided into 26 equal rows. How many cars can be parked in each row?

_____________ cars can park in each row.

11. If a machine can make 761 pencils in a second, how many pencils can it make in 23 seconds?

It can make ____________ pencils.

12. In New York City, each mail truck has 1,023 pieces of junk mail. If there are 71 mail trucks, how much junk mail do they have total?

They have ____________ pieces of junk mail.
Check What You Know

Understanding Place Value

What is the value of the underlined digit?

1. a) 4,332  
   b) 52,321

Write the digit that is in the given place value.

2. 30.146 – hundredth
   1,325.12 – thousand
   ____
   ____

3. 1.325 – tenth
   731.045 – one
   ____
   ____

Convert each power of ten to a standard number.

4. $10^4$ ________  
   $10^6$ ________

Multiply or divide by the given power of ten.

5. $8.75 \times 1,000$ ________  
   $7,643 \div 100$ ________

6. $45.67 \times 1,000$ ________  
   $34,981 \div 1,000$ ________

Write the numbers in expanded form.

7. 592,682  
   78.364