

Grade 7 Mathematics
Week of October 5 – October 9

Lesson 1.2 continued: Multiplying and Dividing Decimals and Lesson 1.3: Number Strategies

Lesson Materials

- Lessons for Section [1.2 Multiplying and Dividing Decimals](#) continued
- Lesson for Section [1.3 Number Strategies](#)
- Place Values Learning Guide (This PDF)

Use the link above to open the lessons for Section 1.2 Multiplying and Dividing Decimals and use the Table of Contents menu to select Long Division 2. Remember: on the lesson page, use the arrow next to the “Table of Contents” at the **top of the page** to move through the lessons.

[G4T](#) > [Modules](#) > [Mathematics](#) > 1.1 Place Value

The screenshot shows the WCLN.ca website interface. At the top, there is a navigation bar with the text 'WCLN.ca Introduction to Numbers'. To the right of this bar, a 'Table of Contents' menu is highlighted with a red rectangular box. Below the navigation bar, there is a paragraph of text: 'Numbers are all around us. They serve very different purposes depending on how they are used. A number is a mathematical object used to count, measure or label.' Below this text is a table with three columns: 'Count', 'Measure', and 'Label'. The 'Count' column contains a minus sign (-). The 'Measure' column contains 'centimeter' and 'decimeter'. The 'Label' column contains a small image of a landscape.

Work through the online lessons for Sections 1.2 and 1.3. You can work at your own pace or follow the suggested schedule below. Complete the activities in your Learning Guide as you work through the lessons. You can print the Learning Guide, or, copy out the questions on a separate piece of paper. Be sure to try the games and practice quizzes as you make your way through the online lesson book.

Suggested Lesson Schedule

<p>Monday</p> <ul style="list-style-type: none">• Long Division 2• Practice #4• Practice #5 <p>Tuesday</p> <ul style="list-style-type: none">• Long Division 3• Decimal Word Problems• If not yet done, complete Learning Guide 1.2, #8-10, p. 7-8 <p>Wednesday</p> <ul style="list-style-type: none">• Mental Math• Multiplication (Balloon)• Multiplication Challenge• Practice Your Math	<p>Thursday</p> <ul style="list-style-type: none">• Halving and Doubling• Add in Your Head• Speed Practice• LG 1.3, #1-2, p. 9 <p>Friday</p> <ul style="list-style-type: none">• Add 3-Digits• More 3-Digit• Speed Practice• LG 1.3, #3-4, p. 9-10
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7. Draw a decimal in the proper place in each answer. *Reminder: When dividing with a decimal, place the decimal of the quotient directly above the decimal in the dividend. You may need to add leading zeros in the quotient.*

$$\text{Ex. } 4 \overline{)49.44} \quad \begin{array}{r} 12.36 \\ \hline \end{array}$$

$$\text{b. } 6 \overline{)17.274} \quad \begin{array}{r} 2879 \\ \hline \end{array}$$

$$\text{d. } 12 \overline{)4.656} \quad \begin{array}{r} 388 \\ \hline \end{array}$$

$$\text{a. } 9 \overline{)141.3} \quad \begin{array}{r} 157 \\ \hline \end{array}$$

$$\text{c. } 5 \overline{)0.45055} \quad \begin{array}{r} 9011 \\ \hline \end{array}$$

$$\text{e. } 253 \overline{)45\,494.46} \quad \begin{array}{r} 17982 \\ \hline \end{array}$$

8. Divide. *Reminder: When necessary, change the format of the question into long division before dividing.*

$$\text{Ex. } 6 \overline{)14.4} \quad \begin{array}{r} 2.4 \\ 6 \overline{)14.4} \\ \underline{-12} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

$$\text{c. } 380.4 \div 6$$

$$\text{a. } 3 \overline{)82.5}$$

$$\text{d. } 194.48 \div 11$$

$$\text{b. } 5 \overline{)174.5}$$

$$\text{e. } 23 \overline{)566.03}$$

9. Rewrite the division so that there is no decimal in the divisor. Place the decimal above the dividend. Do NOT solve. *Reminder: Move the decimal to the right the same number of spaces in the divisor and the dividend. You may need to add zeros at the end of the dividend.*

Ex. $2.3 \overline{)155.48}$

$23 \overline{)1554.8}$

c. $1.2 \overline{)2.478}$

a. $4.8 \overline{)91.344}$

d. $0.31 \overline{)9}$

b. $44.1 \overline{)66.5469}$

e. $0.004 \overline{)3.75}$

10. Divide. *Reminder: When there is a remainder, add zeros to the dividend and continue dividing until the quotient terminates or is repeating.*

Ex. $1.1 \overline{)2.4}$

$$\begin{array}{r}
 \mathbf{2.1818} \\
 \mathbf{11} \overline{)24.0000} \quad \mathbf{2.18} \\
 \underline{-22} \\
 \mathbf{20} \\
 \underline{-11} \\
 \mathbf{90} \\
 \underline{-88} \\
 \mathbf{20} \\
 \underline{-11} \\
 \mathbf{90}
 \end{array}$$

b. $8 \overline{)12.1}$

a. $0.3 \overline{)6.88}$

c. $0.4 \overline{)15.7}$

1.3 NUMBER STRATEGIES

1. Use the mental math strategy of rounding (for example: +1/-1, or +2/- 2) to add the following numbers. Write down how you would change the numbers in your head for each question.

Ex. $27 + 51 = \underline{\quad 26 + 50 \quad}$
 $= \underline{76}$

Ex. $18 + 36 = \underline{\quad 20 + 34 \quad} = \underline{54}$

a. $41 + 16$
 $= \underline{\quad} = \underline{\quad}$

b. $53 + 22$
 $= \underline{\quad} = \underline{\quad}$

c. $19 + 24$
 $= \underline{\quad} = \underline{\quad}$

d. $79 + 14$
 $= \underline{\quad} = \underline{\quad}$

e. $46 + 31$
 $= \underline{\quad} = \underline{\quad}$

f. $58 + 23$
 $= \underline{\quad} = \underline{\quad}$

2. Use the mental math strategy of expanding (splitting into place values) to add the following numbers. Write down how you would change the numbers in your head for each question.

Ex. $53 + 28 = \begin{array}{l} 50 + 3 \\ 20 + 8 \\ 70 + 11 = 81 \end{array}$

c. $14 + 43 =$

a. $19 + 24 =$

d. $38 + 48 =$

b. $63 + 26 =$

e. $57 + 33 =$

3. Use the mental math strategy of expanding (splitting into place values) to add the following numbers. Write down how you would change the numbers in your head for each question.

a. $147 + 312$

b. $531 + 436$

c. $655 + 343$

d. 238

+

517

4. Use the mental math strategy of rounding (for example: $+10/-10$, or $+20/-20$) to add the following numbers. Write down how you would change the numbers in your head for each question.

a. $580 + 355$

c. $490 + 461$

b. $174 + 620$

d. $378 + 210$