Chapter 5 Section 2
Add, Subtract Decimals

Similar to addition, subtraction of whole numbers.
Add: 2.34 and 5.25
Change to mixed fractions and add
$2.34+5.25$
$2 \frac{34}{100}+5 \frac{25}{100}$
$7 \frac{59}{100}$

Another way is to line the decimal numbers on their decimal points and add vertically

| 2.34 |
| ---: |
| $+\quad 5.25$ |
| 7.59 |

Try: add 3.125 and 4.814
add: $2.864+3.029$

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Observation: Adding zeros to the end of the fractional part of a decimal number does not change its value. Similarly, deleting trailing zeros from the end of a decimal number does not change its value.
7.25 and 7.2500 are identical
7.2500
$7 \frac{2500}{10000} \quad$ reduce
$7 \frac{25}{100}$
7.25

Add: 7.5 and 12.23
Arrange the numbers in vertical format. Align their decimal points in a column and add trailing zero to acquire the same number of decimal places in each number.
7.50

| +12.23 |
| :--- |
| 19.73 |

Try: Find the sum: $12.2+5.352+22.44$

Subtracting Decimals
Similar procedure to addition of decimal numbers.
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1) Place the numbers in vertical format, aligning the decimal points.
2) Subtract the numbers as if they were whole numbers.
3) Place the decimal point in the answer in the same column as the decimal points above it.

Subtract: 12.23 from 33.57
33.57
$\begin{array}{r}-\quad 12.23 \\ \hline 21.34\end{array}$

Try:
a) $58.76-38.95$
b) $13.3-8.572$

Signed Decimal numbers
If it looks difficult, make it simple.
a) $-3.2+(-18.95)$
b) $-3+2.24$
c) $-8.567-(-12.3)$
d) $-11.2-(-8.45+2.7)$
e) $-12.3-(-4.6-(-2.84)$

