

NAME _____

Module 5 **Decimal Operations, Exponents, and Powers**
Lesson 3 **Adding and Subtracting Decimals**

Lesson Objectives

- Estimate decimal sums and differences using rounding and front-end estimation.
- Model addition and subtraction of decimals using diagrams and/or illustrations of manipulatives.
- Develop and use algorithms to add and to subtract numbers containing decimals (up to thousandths place).

Subtopic 1 Estimation of Decimal Sums and Differences

To estimate decimal sums and differences:

- Estimate the _____ or the _____ and _____.
- Find the sum or difference of the _____ numbers.

1

Diane has three \$10 bills. At the sporting goods store, she sees a baseball cap that costs \$14.95 and a tee shirt that costs \$12.45. Estimate the total cost of both items. If Diane has enough money to buy both items, estimate the change Diane would receive if she bought the items.

2

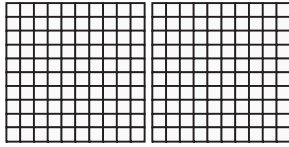
Will sees three cookbooks in a bookstore. The books cost \$15.99, \$18.75, and \$22.25. Estimate the total cost of the three books. Can Will buy the books using only a \$50 bill?

Subtopic 2**Adding Decimals Using Models and the Standard Algorithm****To add decimals:**

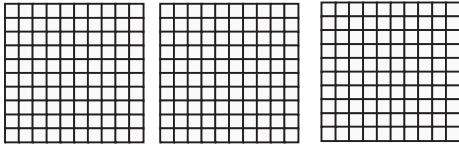
- Write the addends in a column, lining up the _____.
- Add each _____ and regroup as necessary.
- Put the decimal point in the answer in the _____ as in the problem.

Find the sum.**3**

$0.8 + 0.3$

**4**

$1.45 + 0.65$

**5**

$3.57 + 0.6$

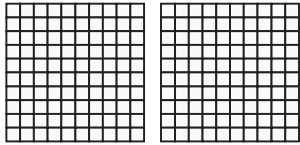
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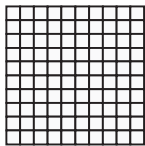
Subtopic 3 **Subtracting Decimals Using Models**

Subtract using a model.

6 $1.2 - 0.12$



7 $0.3 - 0.03$



Subtopic 4 Standard Decimal Subtraction

To subtract decimals:

Write the numbers in a column, lining up the _____ and like place values.
_____ each place value and regroup if necessary.

Place the _____ in the answer in the same position as in the problem.

Estimate and find the difference.



$$9.28 - 3.451$$



$$12.1 - 4.67$$