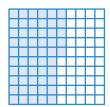
Sub-Unit 1 | Summary

In this sub-unit . . .

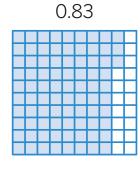
 We related fractions with denominators of 10 and 100 to decimals in tenths and hundredths using objects and models.



<u>55</u> 100

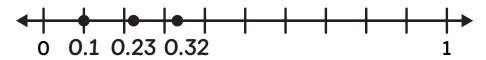
0.55

- Math tip: Any fraction with a denominator of 10 can be rewritten as a decimal in tenths. Any fraction with a denominator of 100 can be rewritten as a decimal in hundredths.
- We represented decimal numbers in word form, expanded form, and expanded notation.



eighty-three hundredths 0.8 + 0.03 $(8 \times 0.1) + (3 \times 0.01)$

 We used base-ten blocks and number lines to compare and order a set of decimal numbers.



The order from least to greatest is 0.1, 0.23, 0.32.

Sub-Unit 2 | Summary

In this sub-unit . . .

 We represented numbers up to 1,000,000,000 in expanded form and expanded notation.

Billions	Hundreds millions	Ten millions	Millions	Hundreds thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
	4	2	0	7	6	4	1	2	9

$$(4 \times 100,000,000) + (2 \times 10,000,000) + (7 \times 100,000) +$$

 $(6 \times 10,000) + (4 \times 1,000) + (1 \times 100) + (2 \times 10) + (9 \times 1)$

- **Math tip:** A place value chart helps you represent numbers in different ways.
- We described the relationship between digits using place value understanding.

$$35,687$$
 $41,509$ $(3 \times 10,000) + (5 \times 1,000) + (6 \times 100) + (8 \times 10) + (7 \times 1)$ $(4 \times 10,000) + (1 \times 1,000) + (5 \times 100) + (9 \times 1)$

The value of the 5 in 35,687 is 5,000. The value of the 5 in 41,509 is 500.

5,000 is 10 times the value of 500. 500 is $\frac{1}{10}$ the value of 5,000.

 We used what we know about place value relationships to round numbers up to the hundred thousands place.

746,187 rounded to the nearest hundred thousand is 700.000.

Sub-Unit 3 | Summary

In this sub-unit . . .

 We rounded numbers to estimate the sum and to determine if the answer is reasonable.

$$2,498 + 320 = 5798$$

My answer is not reasonable because 2,500 + 300 = 2,800.

 We used the expanded form algorithm to add and subtract multi-digit whole numbers.

$$\begin{array}{c}
3,000 & 1,400 \\
90,000 + \cancel{4},\cancel{0}\cancel{0}\cancel{0} + \cancel{4}\cancel{0}\cancel{0}\cancel{0} + 20 + 3 \\
-80,000 + 3,000 + 700 + 10 + 2 \\
\hline
10,000 + 0,000 + 700 + 10 + 1 = 10,711
\end{array}$$

- **Math tip:** Regrouping means you take 1 unit from a greater place value to make 10 units of the next smaller place value.
- We used the standard algorithm with and without regrouping to add and subtract whole multi-digit numbers.

Sub-Unit 4 | Summary

In this sub-unit . . .

 We used visual models and money to represent and solve addition and subtraction involving decimals.

$$1.5 + 0.75 = 2.25$$



We estimated sums and differences.

$$211.5 + 4.75$$

The sum is about 217 because 212 + 5 = 217.

 We solved addition and subtraction of decimals to the hundredths using the standard algorithm.

$$\begin{array}{r}
410 \\
9.50 \\
-2.42 \\
\hline
7.08
\end{array}$$

Math tip: Line up the decimal numbers by place value to add or subtract.