

5th Grade Module 1

Topic B: Decimal Fractions and Place Value Patterns

Express *seven thousandths* as a decimal.

Express *thirty-two thousandths* as a fraction.

Imagine 74.052 on a place value chart. Then, write it in expanded form using fractions and decimals to express the decimal place value units. An example is shown for you.

EXAMPLE: 27.346

Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths
	2	7	.	3	4	6

Expanded form with fractions:

$$27.346 = 2 \times 10 + 7 \times 1 + 3 \times \left(\frac{1}{10}\right) + 4 \times \left(\frac{1}{100}\right) + 6 \times \left(\frac{1}{1000}\right)$$

Expanded form with decimals:

$$27.346 = 2 \times 10 + 7 \times 1 + 3 \times 0.1 + 4 \times 0.01 + 6 \times 0.001$$

74.052

Expanded form with fractions:	
Expanded form with decimals:	

Write a decimal for the expanded form shown below.

Expanded	Decimal
$2 \times 10 + 6 \times 1 + 3 \times \left(\frac{1}{100}\right) + 9 \times \left(\frac{1}{1000}\right)$	
$9 \times 100 + 2 \times 10 + 3 \times 0.1 + 7 \times 0.001$	

Show the numbers on the place value chart using digits. Use $>$, $<$, or $=$ to compare. Explain your thinking in the space to the right.

167.4 ○ 167.462

Use $>$, $<$, and $=$ to compare the numbers.

34.725 ○ 34.735

Arrange the numbers from least to greatest.

76.342 76.332 76.232 76.343