

Decimals and Rational Numbers

Decimal notation is just a different way to write fractions.

ex: $4\frac{91}{100} = 4.91$ (read: “four and ninety-one hundredths”)

Decimals have fractional place values (the “-ths”). Here are the place values of 3941.50782:

3	9	4	1	.	5	0	7	8	2
Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths	Ten thousandths	Hundred Thousandths

“three thousand nine hundred forty one *and* fifty thousand seven hundred eighty two hundred thousandths”

Ex 1.

Write the word name.

0.000341

82.03092

Ex 2.

Write as a fraction or mixed number in lowest terms.

0.82

–16.425

Ex 3.

Graph on a number line.

4.7

16.517

-2.75

Comparing

Compare each place value from largest to smallest (left to right).

Ex 4.

Use $<$, $>$, or $=$ to write a true statement.

0.61 0.65

45.192 45.092

1.8 1.80

-5.71 -5.8

Rounding

If place value to right is 5 or more, round up.

Ex 5.

Round 59.61538 to the specified place.

Tenths

Hundredths

Thousandths

Ten-thousandths