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Chapter 5 section 1 Introduction to Decimals

Digits: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

Number line:

Move one column to the left; place value is 10 times larger than preceding column. Move one column to the right; place value is 1 tenth time as larger than preceding column.

Diagram for place value

Decimal number 12.3456

Three parts.

- Whole number part left of decimal point 12

- Decimal point

- Fractional part right of decimal point 3456

Pronounce

1234.56

Read

Whole number part and fractional part

Read fractional part by reading whole number, followed by the place value of the right most column

One thousand two hundred thirty four and fifty six hundredths

Decimal to fraction

Read the number and write.

134.12

One hundred thirty four and twelve hundredths. $134\frac{12}{100}$

Try: 0.35

Decimal to improper:

134.12

Write the decimal number in numerator without decimal point Count decimal places. Places equal the number of zeros in denominator.

 $\frac{13412}{100}$

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Try: 27.198

Rounding

Rounding digit immediately to right of test digit.

16.254 round to tenths 2 in tenths place, look to right, 5, increase 2 to 3 and drop the digits after the rounding digit.
16.3

Try: 8.7463 Round to the hundredths.

Comparing Decimal

Same number of decimal places
Align the decimal point
Compare digits from left to right
For positive numbers
Greatest digit larger number
For negative numbers
Greatest digit is smaller number.

4.25 4.227 Which number is larger.

4.250

4.227

4.25 is larger.

Try:

Find the larger number

a) 8.34 8.348 b) - 4.25 - 4.227