

4.NF.7 Comparing Decimals

I can...compare decimals with denominators of 10 & 100.



decimal

A number with one or more digits to the right side of a decimal point.



3.076 24.89 13.421

tenths

Fraction represented as a decimal, to show parts of a whole.

fraction: $\frac{7}{10}$ decimal: .7 word form: seven-tenths

Tip: When there is ONE zero in the denominator, there must be ONE number after the decimal.

hundredths

Fraction represented as a decimal, to show parts of a whole.

fraction: $\frac{7}{100}$ decimal: .07 word form: seven-hundredths

Tip: When there are TWO zeros in the denominator, there must be TWO numbers after the decimal.

Place Value of Decimals

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths



Compare. (<, >, =)

Using place value

Compare place value. If needed, make an equivalent decimal, to both decimals have the same place values to help you compare.

.25 < .83

2 tenths < 8 tenths

.32 > .30

32 hundredths < 30 hundredths

1) 0.56 ○ 0.65

4) 0.34 ○ 0.22

2) 0.24 ○ 0.28

5) 0.17 ○ 0.18

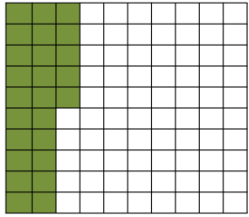
3) 0.5 ○ 0.45

6) 0.90 ○ 0.99

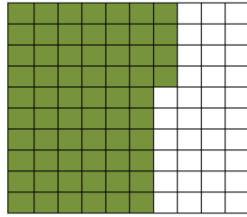
PRACTICE

Using Models

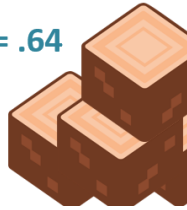
Fill in the grid to represent each decimal.



$$\frac{25}{100} = .25$$



$$\frac{64}{100} = .64$$



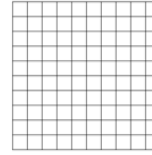
If I compare tenths to hundredths, place a "0" on the end of the tenths, to compare the same place value.



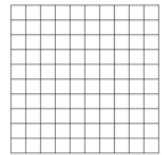
Fill in each grid to represent the decimal. Then, compare (<, >, =):



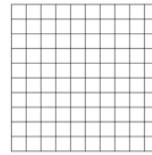
0.34



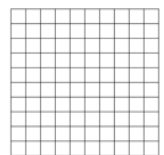
0.4



0.6

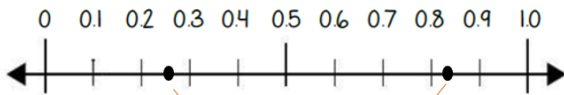


0.60

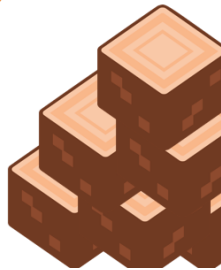


Using number lines

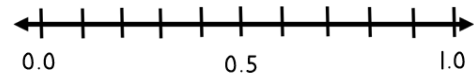
Place each decimal on a number line. The decimal farthest to the right is greater.



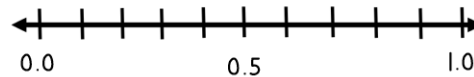
$$.25 < .83$$



Plot and label each decimal on the number line below. Then compare. (<, >, =)



0.75 0.55



0.16 0.8

Ordering decimals

To order decimals, compare place values, create a number line or a model, if needed.

Order from least to greatest

.34 .43 .4

Remember, .4 = .40

.34 < .40 < .43

Order the following decimals from least to greatest.

1) 0.24, 0.3, 0.2 2) 0.5, 0.15, 0.05

___ < ___ < ___ ___ < ___ < ___

Order the following decimals from greatest to least.

3) 0.73, 0.67, 0.7 4) 0.8, 0.08, 0.88

___ > ___ > ___ ___ > ___ > ___