

How to Compare Fractions and Decimals

We are going to put the following numbers in order from least to greatest.

$$\frac{7}{10}, 0.4, \frac{1}{4}, 0.375$$

To put these numbers in order, we will:

1.) Convert the fractions into decimals.

$$\begin{array}{r} \frac{7}{10} = 10 \overline{) 7.0} \\ \underline{0} \\ 70 \\ \underline{70} \\ 0 \end{array}$$

$$\begin{array}{r} \frac{1}{4} = 4 \overline{) 1.00} \\ \underline{0} \\ 10 \\ \underline{8} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

~~decimal~~
decimal

2.) Rewrite using decimal form of our numbers.

$$0.7, 0.4, 0.25, 0.375$$

3.) Make place chart

4.) Write numbers in chart, add zeros if needed

5.) Compare digits in ones place, cross all digit

with the highest value

	O	t	h	th
0.7	0	7	0	0
0.4	0	4	0	0
0.25	0	2	5	0
0.375	0	3	7	5

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Continued.

(c.) Compare all digits
in tenths column.

O	t	h	th
8	7	0	0 7 ④

7.) List our numbers
in order in their
original form!

8	4	0	0 ③
8	2	5	0 ①
0	3	7	5 ②

$\frac{1}{4}$, 0.375, 0.4, $\frac{7}{10}$

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