

# Ordering Fractions, Decimals and Percentages

LO: 2ba2 order FDP's by using our converting knowledge.

- Starter:  
Fill out the  
table of  
converting  
between  
FDP

Fraction	Decimal	Percentage
<b>1/2</b>		
	<b>0.75</b>	
		<b>20%</b>
<b>1/8</b>		
	<b>0.93</b>	
<b>1/50</b>		
		<b>4%</b>

# Ordering Fractions

What do you think we need to do? How could we do it?  
(10 seconds)

Top tip:

- 1) Convert everything into decimals
- 2) Order the decimals
- 3) Re-write the original

# Ordering Decimals - Recap

It is easier to put decimals in order if we have the same number of digits after the decimal point.

0.12 0.302 0.5 0.06

**Step 1**

Look at the decimals to find which one has the most number of digits after the decimal point.

0.12

0.302

0.5

0.06

**Step 2**

Add zeros to the other decimals so that they all have this number of digits after the decimal point.

0.120

0.302

0.500

0.060

**Step 3**

Put the numbers in order of size.

0.500

0.302

0.120

0.060

# Quick Practice Questions!

Put these decimals in order from highest to lowest:



3.45	3.3	3.709	3.9	3.56
2.3	2.109	2.06	2.329	2.091



16.7	1.067	167.01	1.78	1.682
42.6	4.901	4.22	142.04	4.910



Challenge:

Can you order the following measurements in ascending order.

121cm

0.46m

79mm

1.42m

1.35km

# Answers

Put these decimals in order from highest to lowest:



3.9	3.709	3.56	3.45	3.3
2.329	2.3	2.109	2.091	2.06



167.01	16.7	1.78	1.682	1.067
142.04	42.6	4.910	4.901	4.22



Challenge:

Ca	79mm	0.46m	121cm	1.42m	1.35km	der.
12						6km

# Ordering FDP

We have now practiced converting between FDP and also we have had a recap on ordering decimals.

Now we can order Fractions, Decimals and Percentages.

# Ordering FDP:

87%      0.871       $\frac{1}{2}$        $\frac{2}{3}$       0.57

Step 1 – turn all the figures into decimals.

Step 2 – put the decimals in order from smallest to largest.

Step 3 – turn the figures back to their original form.

NOTE: To turn a percentage into a decimal divide by 100 and to turn a fraction into a decimal divide the numerator by the denominator.

0.87      0.871      0.5      0.67      0.57

0.5      0.57      0.67      0.87      0.871

$\frac{1}{2}$       0.57       $\frac{2}{3}$       87%      0.871

# Class example - Your turn

56%       $\frac{3}{4}$       0.871      23%       $\frac{6}{7}$

Step 1 – turn all the figures into decimals.

Step 2 – put the decimals in order from smallest to largest.

Step 3 – turn the figures back to their original form.

0.56      0.75      0.871      0.23      0.86

0.23      0.56      0.75      0.86      0.871

23%      56%       $\frac{3}{4}$        $\frac{6}{7}$       0.871



Activity: Put these numbers into lowest to highest order.

1)	0.22	$\frac{1}{10}$	0.34	$\frac{2}{3}$	0.903
2)	$\frac{1}{10}$	0.507	0.320	$\frac{7}{9}$	0.12
3)	$\frac{1}{2}$	45%	0.9	$\frac{4}{10}$	0.3
4)	0.67	61%	$\frac{6}{10}$	0.067	0.601
5)	1.45	142%	$\frac{3}{2}$	107%	1.024
6)	1.92	$\frac{7}{3}$	193%	1.899	$\frac{5}{2}$
Challenge 1:	0.003	$\frac{3}{100}$	0.03%	$\frac{3}{10}$	0.303%
Challenge 2:	$\frac{7}{4}$	74%	7.4	$\frac{4}{7}$	70.4

# Answers (Lowest to Highest)

1)	1/10	0.22	0.34	2/3	0.903
2)	1/10	0.12	0.320	0.507	7/9
3)	0.3	4/10	45%	1/2	0.9
4)	0.067	6/10	0.601	61%	0.67
5)	1.024	107%	142%	1.45	3/2
6)	1.899	1.92	193%	7/3	5/2
Challenge 1:	0.03%	0.303%	0.003	3/100	3/10
Challenge 2:	4/7	74%	7/4	7.4	70.4

# Plenary

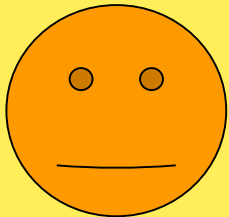
Convert your scores for today's lesson into a  
Fraction, Decimal and a Percentage.  
(Out of how many questions you attempted)

# Verbal Feedback



**75% +  
0.75 +  
3/4 +**

I can confidently convert Fractions, Decimals and Percentages and I am able to order them.



**50 - 75%  
0.5 - 0.75  
1/2 - 3/4**

I need practice on converting Fractions, Decimals and Percentages which I can use to order them



**50% -  
0.5 -  
1/2 -**

I need to look back at my notes on converting between Fractions, Decimals and Percentages