

Number – Ordering fractions, percentages and decimals

Decimals

Write these decimals in order, smallest first.

4.5 4.05 4.511 4.49

Fill the empty columns with zeros to make all the decimals the same length

4.500 4.050 4.511 4.490

Now the decimals are easier to write in order

4.490 4.050 4.500 4.511

Write the final answer without the extra zero's

4.49 4.05 4.5 4.511

Percentages

Which percentage is the biggest?

67% 65.9% 65% 66.42%

67% is the biggest?

Percentages are used to make it easy to compare values

Fractions

Which fraction is the smaller?

$\frac{3}{4}$ or $\frac{4}{9}$

Write the fractions with a common denominator

$\frac{3}{4} = \frac{27}{36}$ $\frac{4}{9} = \frac{16}{36}$

16 is smaller than 27 so
 $\frac{4}{9}$ is smaller than $\frac{3}{4}$

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Use this diagram to change between fractions percentages and decimals

Follow the arrows clockwise

Fraction

Write as a fraction using 100 as the denominator, then simplify the fraction

Percentage

Multiply by 100

Divide the numerator by the denominator

Decimal

Change a fraction into a percentage
Follow the arrow clockwise, change to a decimal then change to a percentage

Change $\frac{5}{8}$ into a percentage
 $5 \div 8 = 0.625$
 $0.625 \times 100 = 62.5$
 $\frac{5}{8} = 62.5\%$

Change 0.45 into a fraction
 $0.45 \times 100 = 45$
 $\frac{45}{100} = \frac{9}{20}$
 $0.45 = \frac{9}{20}$

Change a decimal into a fraction
Follow the arrows clockwise, change to a percentage then change to a fraction