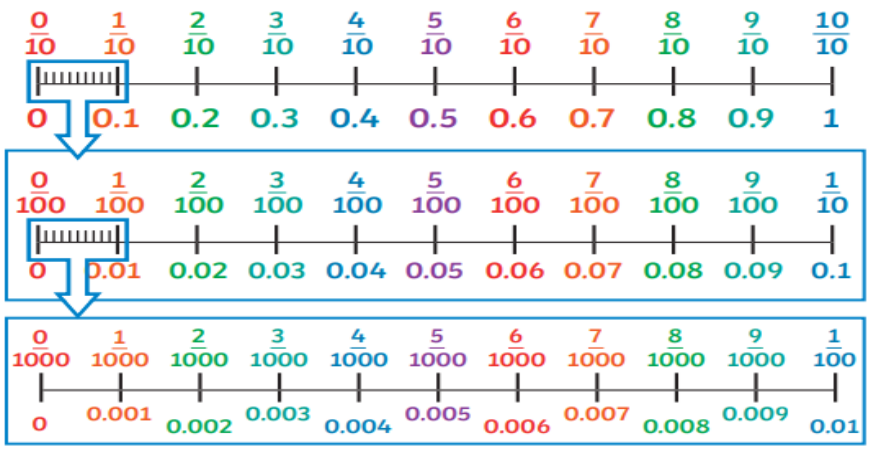
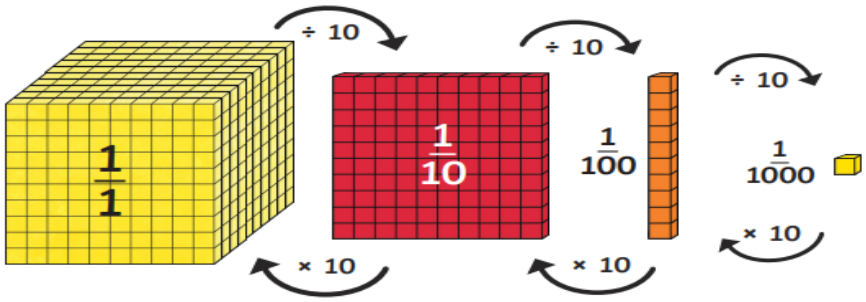
Year 5 Fractions, Decimals and Percentages Vocabulary

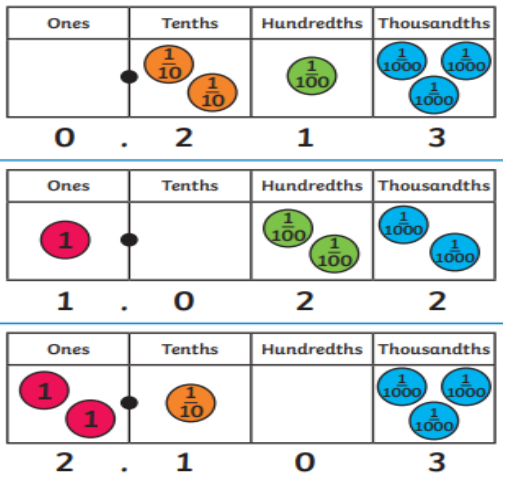
Whole	Equivalence, equivalent
Equal parts, four equal parts	Numerator, denominator
One half, two halves	Unit fraction, non-unit fraction
A quarter, two quarters	Compare and order
Three quarters, one third, a third	Tenths
Equivalent fractions and decimals	Hundredths, Thousandths
Proper fractions, improper fractions, mixed numbers	Half, quarter, fifth, two fifths, four fifths
Percentage	Ratio, proportion

Tenths, Hundredths and Thousandths





Order and Compare Numbers with Three Decimal Places

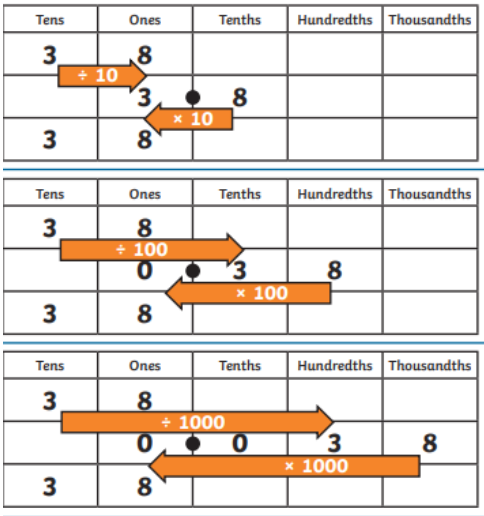


Decimal Numbers as Fractions

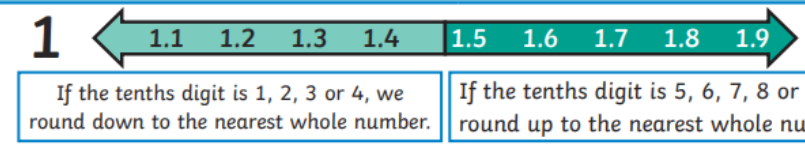
$$0.71 = \frac{71}{100} = \frac{7}{10} + \frac{1}{100}$$

$$0.37 = \frac{37}{100} = \frac{3}{10} + \frac{7}{100}$$

Multiplying and Dividing by 10, 100 and 1000

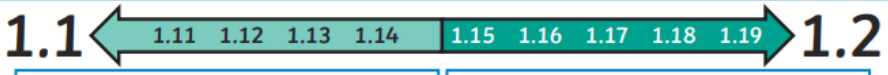


Rounding Decimals



If the tenths digit is 1, 2, 3 or 4, we round down to the nearest whole number.

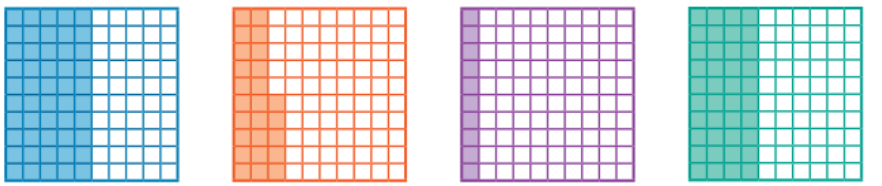
If the tenths digit is 5, 6, 7, 8 or 9, we round up to the nearest whole number.



If the hundredths digit is 1, 2, 3 or 4, we round down to the nearest tenth.

If the hundredths digit is 5, 6, 7, 8 or 9, we round up to the nearest tenth.

Percentage and Decimal Equivalents



$50\% = \frac{50}{100} = \frac{1}{2} = 0.5$ $25\% = \frac{25}{100} = \frac{1}{4} = 0.25$ $10\% = \frac{10}{100} = \frac{1}{10} = 0.1$ $40\% = \frac{40}{100} = \frac{2}{5} = 0.4$

Adding and Subtracting Decimals

0.8 + 0.001 = 0.801

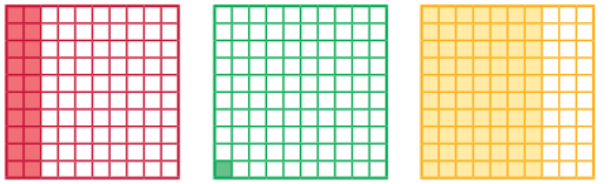
1.031 - 0.23 = 0.801

0.4005 + 0.4005 = 0.801

Crossing the Whole

0.82 + 0.63 = 1.45

2.531 - 0.6 = 1.931



$20\% = \frac{20}{100} = \frac{1}{5} = 0.2$ $1\% = \frac{1}{100} = 0.01$ $70\% = \frac{70}{100} = \frac{7}{10} = 0.7$