



Number Line



Negative Numbers

Positive Numbers

Four Operations

Addition (+)

$$\begin{array}{r} 787567 \\ + 446278 \\ \hline 1233845 \\ \hline \end{array}$$

Subtraction (-)

$$\begin{array}{r} 742831 \\ - 427358 \\ \hline 315473 \\ \hline \end{array}$$

Multiplication (x)

$$\begin{array}{r} 43 \\ \times 65 \\ \hline 215 \quad (5 \times 43) \\ + 2580 \quad (60 \times 43) \\ \hline 2795 \end{array}$$

Division (÷)

$$846 \div 5 = 169.2$$

$$\begin{array}{r} 169.2 \\ 5 \overline{)846.0} \\ \underline{5} \\ 34 \\ \underline{30} \\ 46 \\ \underline{45} \\ 10 \\ \underline{10} \\ 0 \end{array}$$

Key Vocabulary - Definitions

Multiple - a number that can be divided evenly by a given number.

Factor - a number that is multiplied by another number, resulting in a product.

Common Factor - a number which is a factor of two or more other numbers.

Prime Number - a number with no divisors other than 1 and itself.

Composite Number - a number that can be divided by numbers other than 1 and itself, leaving no remainders.

Prime Factor - a factor of a number that is also a prime number.

Square Number - $2^2 = 2 \times 2 = 4$

Cube Number - $3^3 = 3 \times 3 \times 3 = 27$

Units of Measure

Length

Capacity

Mass

1mm = 0.1cm

1ml = 0.001l

1g = 0.001kg

10mm = 1cm

10ml = 0.01l

10g = 0.01kg

100cm = 1m

100ml = 0.1l

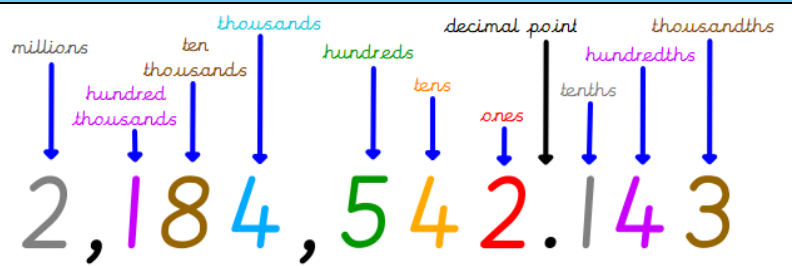
100g = 0.1kg

1000m = 1km

1000ml = 1l

1000g = 1kg

Place Value



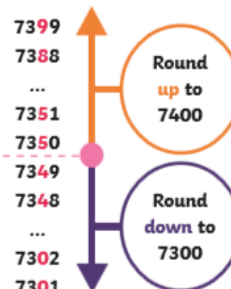
Rounding

Rounding to Nearest 10



Remember: The red digit is the one to consider.

Rounding to Nearest 100



Remember: The red digit is the one to consider.

Rounding to Nearest 1000



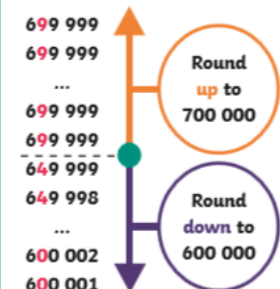
Remember: The red digit is the one to consider.

Rounding to Nearest 10 000



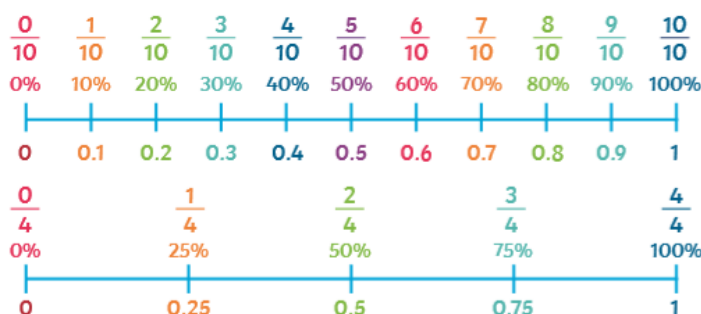
Remember: The red digit is the one to consider.

Rounding to Nearest 100 000



Remember: The red digit is the one to consider.

Equivalent Fractions, Decimals and Percentages



Adding and Subtracting Fractions

When two fractions have the **same** denominator...

$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5} \qquad \frac{4}{8} - \frac{2}{8} = \frac{2}{8}$$

When two fractions have a **different** denominator...

$$\frac{1}{3} + \frac{1}{2} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$$

$$\frac{1}{2} - \frac{1}{5} = \frac{5}{10} - \frac{2}{10} = \frac{3}{10}$$