Ashfield Valley Primary School— Year 6 -Autumn 1- Maths Knowledge Organiser

Place Value

Rounding to the Nearest 10

239, 238, 237, 236, 235 — Round up to 240

234, 233, 232, 231 — Round down to 230

Rounding to the Nearest 100

7399, 7398, ... 7351, 7350 — Round up to 7400

7349, 7348, ... 7302, 7301 — Round down to 7300

Rounding to the Nearest 1000

5999, 5998, ... 5501, 5500 — Round up to 6000

5499, 5498, ... 5002, 5001 — Round down to 5000

Rounding to the Nearest 10,000

29,999, 29,998, ... 25,001, 25,000 — Round up to 30,000

24,999, 24,998, ... 20,002, 20,001 — Round down to 20,000

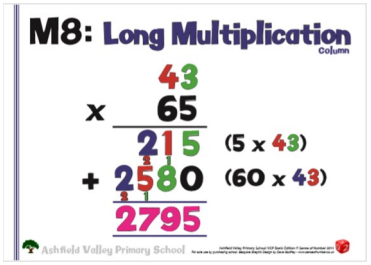
Rounding to the Nearest 100,000

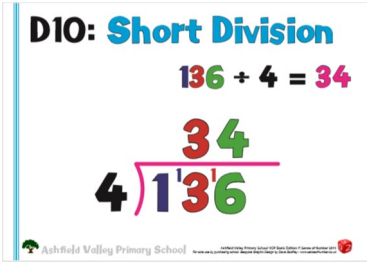
699,999, 699,998, ... 650,001, 650,000 — Round up to 700,000

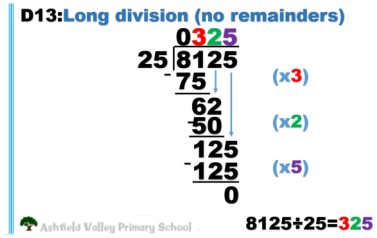
649,999, 649,998, ... 600,002, 600,001 — Round down to 600,000

Rounding to 1 000 000

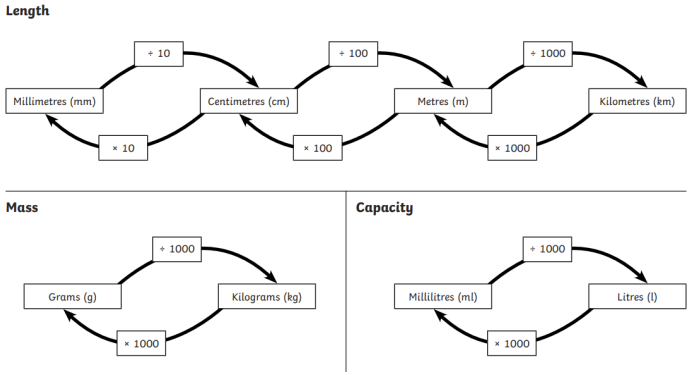
Multiplication and Division



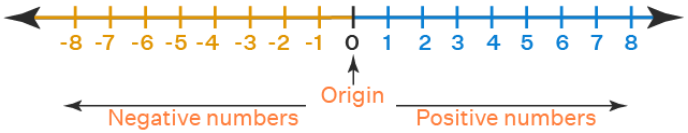




Converting Units of Measure



Positive and Negative Numbers



Place Value Chart

M	HTh	TTh	T	H	T	O	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
0	0	0	0	0	0	0	0	0	0
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

Adding and Subtracting Fractions

When Two Fractions Have the Same Denominator

If the two fractions in the calculation have the same denominator, the denominator will stay the same. Then all you need to do is simply add or subtract the numerators to find the sum of the fractions.

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

When Two Fractions Have Different Denominators

First, find the smallest common denominator (smallest whole number that has both denominators as factors). Rewrite the fractions with that denominator then add or subtract. When working with mixed numbers, add or subtract the whole numbers too.

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

$\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$ $\frac{5}{10} - \frac{2}{10} = \frac{3}{10}$