## Number Facts: Year 3

Number and place value Pupils should be taught to:

- count from 0 in multiples of $4,8,50$ and 100 ; find 10 or 100 more or less than a given number

Addition and subtraction
Pupils should be taught to:

- add and subtract numbers mentally, including:
- a three-digit number and ones
- a three-digit number and tens
a three-digit number and hundreds

Multiplication and division
Pupils should be taught to:
recall and use multiplication and division facts for the 3,4 and 8 multiplication tables

- write and calculate mathematical
statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods


## Fractions

Pupils should be taught to

- count up and down in tenths; recognise that tenths arise from dividing an object into 10 equa parts and in dividing one-digit numbers or quantities by 10
- recognise and show, using diagrams, equivalent fractions with small denominators
- add and subtract fractions with the same denominator within one whole (e.g. ${ }_{7} /_{7}+{ }_{7} /{ }_{7}={ }^{6} / 7$ )


## Measurement

Pupils should be taught to: - measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass (kg/g); volume/capacity ( $/ / \mathrm{ml}$ )
know the number of seconds in a minute and the number of days in each month, year and leap year

- Know the sequence of counting in 50's.
- Know the sequence if counting in 100's


## Number Facts: Measure

- 60 seconds = 1 minute
- How many days in each month / year / leap year.
- Find and recognise complements to 60 .
- $50 \mathrm{p} \times 2=£ 1.00 \quad £ 50 \times 2=£ 100$
- $25 \mathrm{p} \times 4=£ 1.00 \quad £ 25 \times 4=£ 100$
- $20 p \times 5=£ 1.00 \quad £ 20 \times 5=£ 100$
- $1000 \mathrm{~g}=1 \mathrm{~kg} \quad 1000 \mathrm{ml}=1 \mathrm{l}$ $1000 \mathrm{~cm}=1 \mathrm{~km}$
- $1000 \div 2=500 \quad 1000 \div 4=250$
- $1 / 2 \mathrm{l} / \mathrm{kg} / \mathrm{km}=500$
- $1 / 4 \mathrm{l} / \mathrm{kg} / \mathrm{km}=250$
- $3 / 4 \mathrm{l} / \mathrm{kg} / \mathrm{km}=750$
- $\frac{1}{2}=\frac{2}{4}=\frac{3}{6}=\frac{4}{8}=\frac{5}{10}$
- $\frac{1}{5}+\frac{1}{5}+\frac{1}{5}+\frac{1}{5}+\frac{1}{5}=\frac{5}{5}=1$ whole
- $\frac{1}{6}+\frac{1}{6}+\frac{1}{6}+\frac{1}{6}+\frac{1}{6}+\frac{1}{6}=\frac{6}{6}=1$ whole
- $\frac{1}{7}+\frac{1}{7}+\frac{1}{7}+\frac{1}{7}+\frac{1}{7}+\frac{1}{7}+\frac{1}{7}=\frac{7}{7}=1$ whole
- $\frac{1}{8}+\frac{1}{8}+\frac{1}{8}+\frac{1}{8}+\frac{1}{8}+\frac{1}{8}+\frac{1}{8}+\frac{1}{8}=\frac{8}{8}=1$ whole
- $\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}+\frac{1}{9}=\frac{9}{9}=1$ whole
- $\frac{1}{10}+\frac{1}{10}+\frac{1}{10}+\frac{1}{10}+\frac{1}{10}+\frac{1}{10}+\frac{1}{10}+\frac{1}{10}+\frac{1}{10}+\frac{1}{10}=\frac{10}{10}=1$ whole
- Understand fraction facts related to whole number facts
$1+5=6$ (Year1)
$\frac{1}{6}+\frac{5}{6}=\frac{6}{6}($ Year 3$)$


## Number facts: Addition and

 subtraction- Know all the complements to 100

$=100$
- Know pairs of multiples of 100 that total 1000
$1+9=10($ Year 1$)$
$10+90=100$ (Year 2)
$100+900=1000($ Year 3$)$

Images and mathematical models to support year 3 conceptual understanding underpinning the facts


