

# Number Facts: Year 4

## Number and place value

Pupils should be taught to

- count in multiples of 6, 7, 9, 25 and 1000

## Addition and subtraction

Pupils should be taught to

- order and compare numbers beyond 1000
- add and subtract numbers with up to 4 digits

## Multiplication and division

Pupils should be taught to:

- recall multiplication and division facts for multiplication tables up to  $12 \times 12$
- multiply two-digit and three-digit numbers by a one-digit number

## Fractions

Pupils should be taught to:

- count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten.
- recognise and write decimal equivalents to  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$

## Measurement

- Convert between different units of measure (e.g. kilometre to metre; hour to minute)

### Number Facts: Number and place value

- Know sequences of counting in multiples of 25.  
0, 25, 75, 100, 125, 150...  
  
550, 525, 500, 475, 450, 425...

### Number Facts: Measure

- $\text{£}5.00 \times 2 = \text{£}10.00$   
 $\text{£}500 \times 2 = \text{£}1000$   
 $\text{£}2.50 \times 4 = \text{£}10.00$   
 $\text{£}250 \times 4 = \text{£}1000$   
 $\text{£}2.00 \times 5 = \text{£}10.00$   
 $\text{£}200 \times 5 = \text{£}1000$
- $10\text{cm} = \frac{1}{10}\text{m}$        $1\text{cm} = \frac{1}{100}\text{m}$
- $100\text{g} = \frac{1}{10}\text{kg}$   
 $1.1\text{kg} = 1\text{kg}$     $100\text{g} = 1\text{kg} + \frac{1}{10}\text{kg}$
- 48 hours = 2 days  
120 minutes = 2 hours  
90 minutes = 1  $\frac{1}{2}$  hours

### Number Facts: Fractions

- $100 \div 10 = 10$        $1000 \div 10 = 100$   
 $10 \div 10 = 1$        $1 \div 10 = \frac{1}{10}$
- $1 \div 10 = \frac{1}{10} = 0.1$        $2 \div 10 = \frac{2}{10} = 0.2$
- $3 \div 10 = \frac{3}{10} = 0.3$        $4 \div 10 = \frac{4}{10} = 0.4$
- $5 \div 10 = \frac{5}{10} = 0.5$        $6 \div 10 = \frac{6}{10} = 0.6$
- $7 \div 10 = \frac{7}{10} = 0.7$        $8 \div 10 = \frac{8}{10} = 0.8$
- $9 \div 10 = \frac{9}{10} = 0.9$        $10 \div 10 = \frac{10}{10} = 1.0$
- $\frac{1}{4} = 0.25$        $\frac{1}{2} = 0.5$   
  
 $\frac{3}{4} = 0.75$

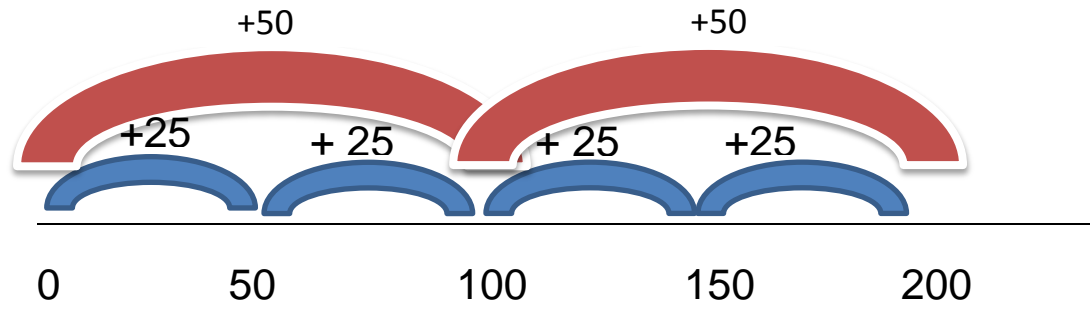
### Number facts: Addition and subtraction

- Know all the complements to 10,000 using multiples of 1000  
 $1 + 9 = 10$  (Year 1)  
 $10 + 90 = 100$  (Year 2)  
 $100 + 900 = 1000$  (Year 3)  
 $1000 + 9000 = 10,000$  (Year 4)  
Pupils should also understand the related subtraction facts.
- Reliably calculate 2 digit numbers mentally.

### Number Facts: Multiplication and division

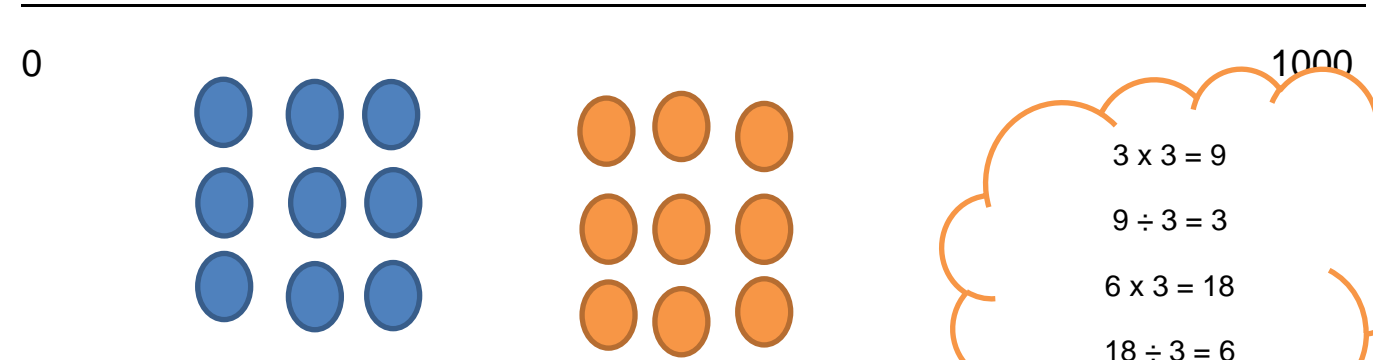
- Know the 6, 7 and 9 times table and the related division facts
- Know all the table facts and the related division facts
- $500 \times 2 = 1000$   
 $1000 \div 2 = 500$
- $250 \times 4 = 1000$   
 $1000 \div 4 = 250$
- $200 \times 5 = 1000$   
 $1000 \div 5 = 200$

Images and mathematical models to support year 4 conceptual understanding underpinning the facts



Counting in sequences of 25

Numberline to 10,000



Using knowledge of numberbonds to 1000 to find number bonds to 10,000

$3 \times 3 = 9$   
 $9 \div 3 = 3$   
 $6 \times 3 = 18$   
 $18 \div 3 = 6$

