

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 12×12
- 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 $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$

Measure

Pupils should be taught to:

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

Addition and Subtraction

- ✓ Know all the complements to 10,000 using multiples of 1000

$$1 + 9 = 10 \text{ (Year 1)}$$

$$10 + 90 = 100 \text{ (Year 2)}$$

$$100 + 900 = 1000 \text{ (Year 3)}$$

$$1000 + 9000 = 10,000 \text{ (Year 4)}$$

Pupils should also understand the related subtraction facts.

- ✓ Reliably calculate 2 digit numbers mentally.

Number and Place Value

- ✓ Know the sequence of counting in multiples of 25.

Always ensure that appropriate models and images are used to support children's conceptual understanding.

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
- ✓ $500 \times 2 = 1000$
- ✓ $1000 \div 2 = 500$
- ✓ $250 \times 4 = 1000$
- ✓ $1000 \div 4 = 250$
- ✓ $200 \times 5 = 1000$
- ✓ $1000 \div 5 = 200$

Fractions

$$\bullet 100 \div 10 = 10 \quad 1000 \div 10 = 100$$

$$10 \div 10 = 1 \quad 1 \div 10 = \frac{1}{10}$$

$$\bullet 1 \div 10 = \frac{1}{10} = 0.1 \quad 2 \div 10 = \frac{2}{10} = 0.2$$

$$3 \div 10 = \frac{3}{10} = 0.3 \quad 4 \div 10 = \frac{4}{10} = 0.4$$

$$5 \div 10 = \frac{5}{10} = 0.5 \quad 6 \div 10 = \frac{6}{10} = 0.6$$

$$7 \div 10 = \frac{7}{10} = 0.7 \quad 8 \div 10 = \frac{8}{10} = 0.8$$

$$9 \div 10 = \frac{9}{10} = 0.9 \quad 10 \div 10 = \frac{10}{10} = 1.0$$

$$\bullet \frac{1}{4} = 0.25 \quad \frac{1}{2} = 0.5$$

$$\frac{3}{4} = 0.75$$

Measure

- $£5.00 \times 2 = £10.00$
- $£500 \times 2 = £1000$
- $£2.50 \times 4 = £10.00$
- $£250 \times 4 = £1000$
- $£2.00 \times 5 = £10.00$
- $£200 \times 5 = £1000$

$$\bullet 10\text{cm} = \frac{1}{10}\text{m}$$

$$1\text{cm} = \frac{1}{100}\text{m}$$

$$\bullet 100\text{g} = \frac{1}{10}\text{kg}$$

$$1.1\text{kg} = 1\text{kg} + 100\text{g} = 1\text{kg} + \frac{1}{10}\text{kg}$$

$$\bullet 48\text{hours} = 2\text{days}$$

$$120\text{minutes} = 2\text{hours}$$

$$90\text{minutes} = 1\frac{1}{2}\text{hours}$$