



# Knowledge Organiser



## Number

### Year 4

### Fractions

It is important to know our multiplication and division facts because this will help us to find fractions of larger quantities. In Year 4, we also start learning about hundredths and how we can write tenths and hundredths as decimals. This is because in real-life, most fractions are written as decimals.

#### Builds from Year 3:

- Find unit and non-unit fractions of amounts.
- Equivalent fractions.
- Add and subtract fractions within one whole.
- Count in tenths  $\frac{1}{10}$
- Compare and order fractions.

#### This year:

- Find fractions of quantities.
- Add and subtract fractions.
- Understand hundredths  $\frac{1}{100}$
- Write tenths and hundredths as equivalent decimals.

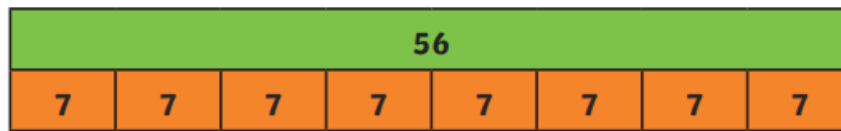
#### Leads to Year 5:

- Convert mixed numbers and improper fractions.
- Add and subtract fractions with different denominators and mixed numbers.
- Equivalent fractions, decimals and percentages.

### Fractions of Quantities

Divide by the denominator, multiply by the numerator.

$$\frac{5}{8} \text{ of } 56 = 35$$



$$56 \div 8 = 7$$

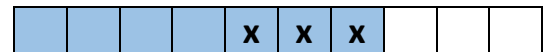
$$7 \times 5 = 35$$

### Adding & Subtracting Fractions

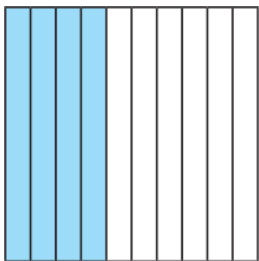
$$\frac{7}{8} + \frac{3}{8} = \frac{10}{8} \text{ or } 1\frac{2}{8} \text{ or } 1\frac{1}{4}$$



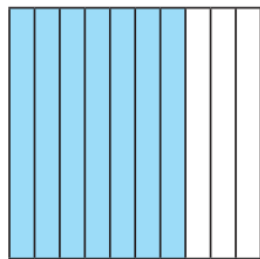
$$\frac{7}{10} - \frac{4}{10} = \frac{3}{10}$$



### Tenths

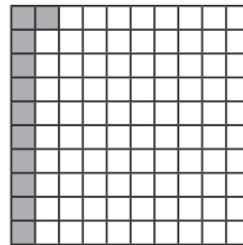


$$\frac{4}{10} = 0.4$$

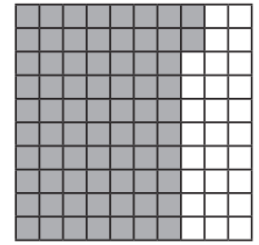


$$\frac{7}{10} = 0.7$$

### Hundredths



$$\frac{11}{100} = 0.11$$



$$\frac{72}{100} = 0.72$$

### Key Vocabulary

numerator    denominator    unit fraction    non-unit fraction    equivalent    halves    thirds    quarters    fifths    sixths  
 sevenths    eighths    ninths    tenths    elevenths    twelfths    quantities