

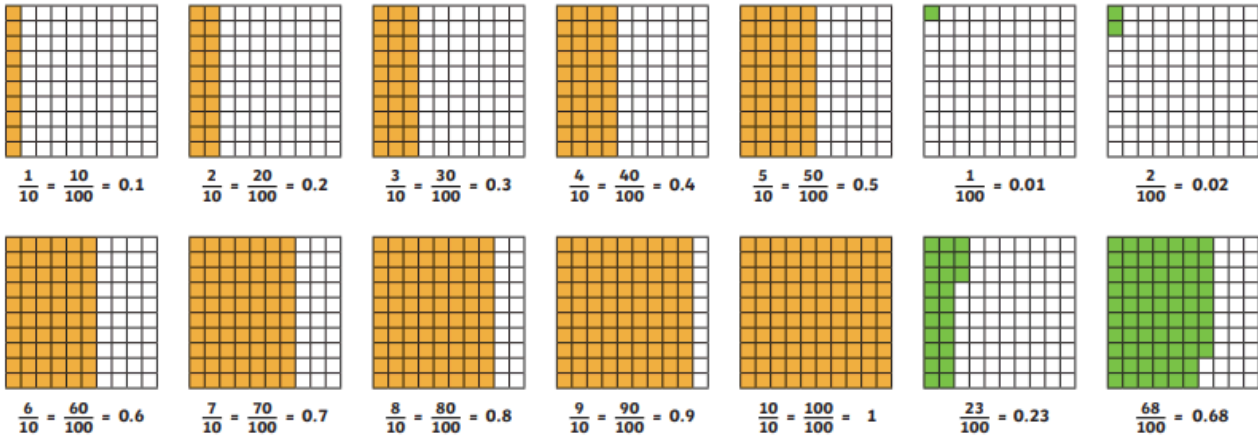
45.6 has 4 Tens, 5 Ones and 6 Tenths, like this:

$$45.6 = 40 + 5 + \frac{6}{10}$$

Decimal Number

# Year 4 Maths Knowledge Organiser

## Tenth and Hundredth Decimal Equivalents



### Equivalent Fractions

$\frac{1}{2}$  is equal to...  $\frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$

$\frac{1}{4}$  is equal to...  $\frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{5}{20}$

### Comparing Fractions

$\frac{1}{3}$  is less than  $\frac{2}{3}$

$\frac{4}{5}$  is greater than  $\frac{3}{5}$

### Add and Subtract Fractions

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

$\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$

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

### Recognising Fractions

$\frac{3}{8}$

**Numerator**  
How many equal parts of the whole are needed?

**Denominator**  
How many equal parts are in the whole?

### Fractions of Amounts

$\frac{1}{4}$  of 24 = 6

$\frac{1}{3}$  of 72 = 24

$\frac{2}{5}$  of 40 = 16

### Short Multiplication

$2543 \times 7 = 17801$

Remember to move any regrouped digits into the next column. After the next multiplication, add the regrouped number to the answer.

### Long Multiplication

$2543 \times 67 = 170381$

Before multiplying by the number in the tens column, remember to use zero as a placeholder because the 6 in 67 is 6 tens (60).

### Mental Calculations for Solving Problems

$(2 \times 3) \times 4 = 24$

$(2 \times 4) \times 3 = 24$

$(3 \times 4) \times 2 = 24$

$16 \times 3 = 30 + 18 = 48$

### Make a Whole

$0.58 + 0.42 = 1$

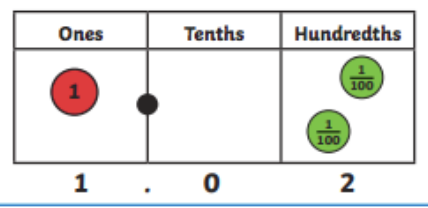
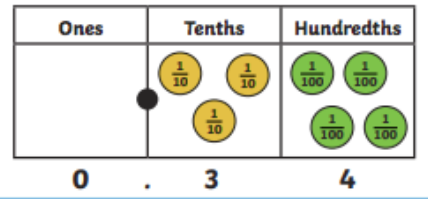
$0.37 + 0.63 = 1$

### Partitioning Tenths and Hundredths

$0.65 = 0.6 + 0.05$

$0.65 = 0.5 + 0.15$

## Comparing Numbers with Two Decimal Places



### Factor pairs and Commutativity

The factors of 20 are 1, 2, 4, 5, 10 and 20.

The factor pairs are:

1 and 20, 2 and 10, 4 and 5

$5 \times 4 = 20$

$4 \times 5 = 20$

### Division

$136 \div 4 = 34$

### Integer Scaling Problems

10 pencils  $10 \times 4 = 40$  pencils

75g  $75g \times 2 = 150g$