

Year 4, Term 5 Knowledge Organiser for Decimals and Fractions.

Decimals

Manipulatives and strategies

one hundredth
one out of 100 equal parts
one divided by one hundred
 $\frac{1}{100} = 0.01$

$\frac{23}{100} = 0.23$

$0.21 > 0.14$ $1.23 < 1.25$

10s 1s $\frac{1}{10}$ s $\frac{1}{100}$ s

$23 \div 10 = 2.3$
move digits 1 place right

$23 \div 100 = 0.23$
move digits 2 places right

3.5 rounded to the nearest whole number is 4

4.4 rounded to the nearest whole number is 4

Fractions

Manipulatives and strategies

$\frac{4}{7} + \frac{5}{7} = \frac{9}{7}$
When adding fractions with the same denominators the denominator stays the same, just add the numerators.

$\frac{13}{9} - \frac{7}{9} = \frac{6}{9}$
When subtracting fractions with the same denominators the denominator stays the same, just subtract the numerators.

$\frac{1}{3} = \frac{2}{6} = \frac{4}{12} = \frac{3}{9}$
Use the same multiplier on the numerator and denominator.

$\frac{1}{6}$ of 18 = 3

$5 \times 3 = 15$ $\frac{5}{6}$ of 18 = $5 \times 3 = 15$

Bar model.

Vocabulary and meanings

tenths	Splitting a whole into 10 equal parts.
hundredths	Splitting a whole into 100 equal parts.
column	A section on a grid that goes down and allows on digit.
Whole number	A number that is all with no parts of or zero only.
round	To bring a number up or down to the nearest whole number.
pounds	100 pence
pence	1 hundredth of a pound.

Vocabulary and meanings

denominator	How many equal parts in the whole (below the fraction bar).
numerator	How many parts there are out of the whole (above the fraction bar).
Unit fraction	1 part of the whole (the numerator is 1).
Non-unit fraction	More than 1 part of the whole (the numerator is 2 or more).
equivalent	Fractions that are all equal even though they have different numbers.
multiplier	A number that you multiply by.