



YEAR 3 - MATHS- FRACTIONS KEY KNOWLEDGE ORGANISER

Key Vocabulary
numerator
denominator
unit fraction
non-unit fraction
equivalent
halves
thirds
quarters
fifths
sixths
eighths
tenths
decimal tenths

Problem Solving.

R - N - C - A

Alex and Jack are counting up and down in thirds.

Alex starts at $5\frac{1}{3}$ and counts backwards.

Jack starts at $3\frac{1}{3}$ and counts forwards.

What fraction will they get to at the same time?

Recognising Fractions

$$\frac{3}{6}$$

Numerator
How many equal parts of the whole are needed?

Denominator
How many equal parts are in the whole?

Comparing Fractions

$\frac{1}{3}$ **Less than** $\frac{2}{3}$

$\frac{4}{5}$ **Greater than** $\frac{3}{5}$

Add and Subtract Fractions

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

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

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

Fractions of Amounts

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

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

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

Equivalent Fractions

Tenths

0 $\frac{1}{10}$ $\frac{2}{10}$ $\frac{3}{10}$ $\frac{4}{10}$ $\frac{5}{10}$ $\frac{6}{10}$ $\frac{7}{10}$ $\frac{8}{10}$ $\frac{9}{10}$ 1

0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Equivalent Fractions

$\frac{1}{2}$ is equal to...

$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$

$\frac{1}{4}$ is equal to...

$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{5}{20}$