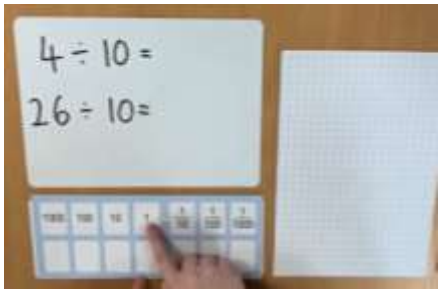
Berrybrook Primary School – Fractions and Decimals Policy

The purpose of our Fractions and Decimals Policy is to ensure consistency in the teaching of Mathematics throughout the school and to ensure that pupils develop efficient written and mental methods, underpinned by conceptual understanding.

<table>
<tr><td>Year 3</td><td colspan="3">Objective 1: To count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.</td></tr>
<tr><td></td><td>Counting up in tenths

(Counters)
  </td><td>Counting down in tenths

(Counters)
  </td><td>Dividing by 10

(Place value sliders)
  </td></tr>
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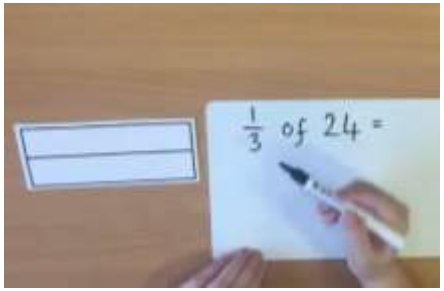
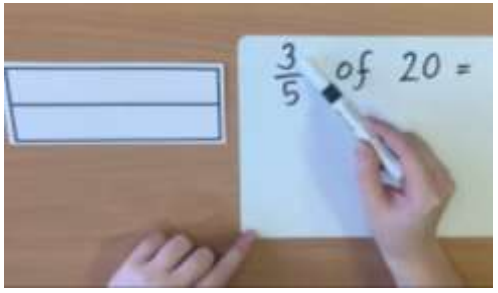
<table>
<tr><td></td><td>Objective 2: To recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators and recognise and use fractions as numbers unit fractions and non-unit fractions with small denominators.</td><td>Objective 3: To recognise and show, using diagrams, equivalent fractions with small denominators.</td></tr>
<tr><td></td><td>$\frac{1}{3}$ of 24 = 8 $\quad$ $\frac{3}{5}$ of 20 = 12</td><td>$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$ $\quad$ $\frac{1}{3} = \frac{2}{6}$

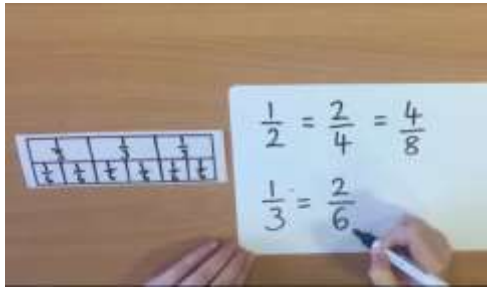
(Bar models)</td></tr>
</table>

(Bar models and counters)



(Bar models and counters)





Objective 4: To add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$].

Objective 5: To compare and order unit fractions, and fractions with the same denominators.

$\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$

(Numicon and bar models)

$\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$

(Numicon and bar models)

Unit fractions

(Bar models)

Same denominator

(Bar models)