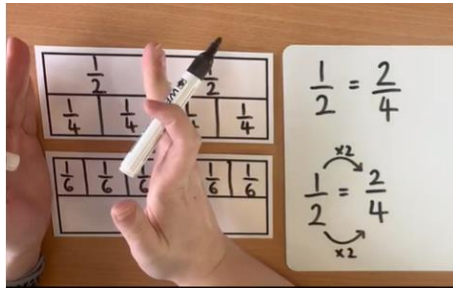
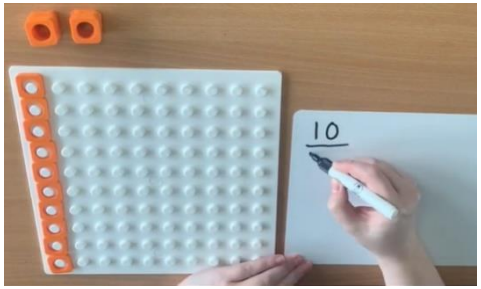
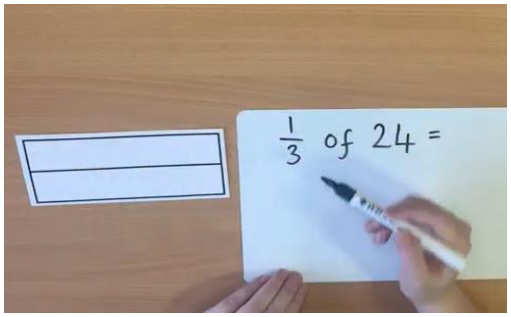
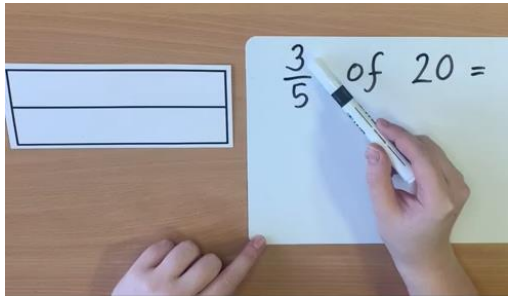
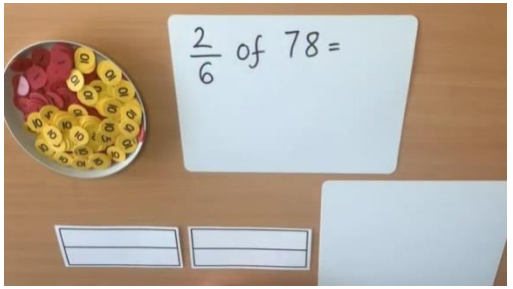
# Dunstall Hill Primary School – Fractions and Decimals Policy

<table>
<tr><td rowspan="4">Year 4</td><td colspan="2">Objective 1: To recognise and show, using diagrams, families of common equivalent fractions.</td><td>Objective 2: To count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</td></tr>
<tr><td colspan="2">$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$<br>(Bar models)<br>  </td><td>Counting in hundredths $\frac{1}{10} = \frac{10}{100}$<br>(Numicon)<br>  </td></tr>
<tr><td colspan="3">Objective 3: To solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</td></tr>
<tr><td>$\frac{1}{3}$ of 24 = 8<br>(Bar models and counters)<br>  </td><td>$\frac{3}{5}$ of 20 = 12<br>(Bar models and counters)<br>  </td><td>$\frac{2}{6}$ of 78 = 26<br>(Bar models and place value counters)<br>  </td></tr>
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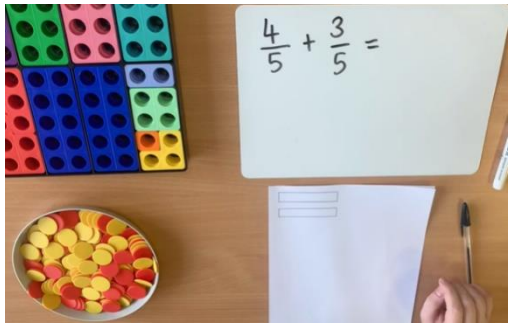
**Objective 4:** To add and subtract fractions with the same denominator.

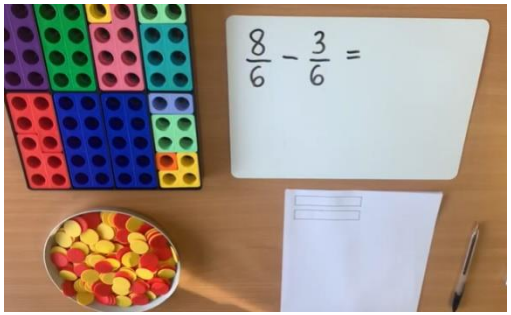
$\frac{4}{5} + \frac{3}{5} = \frac{7}{5}$ or $1\frac{2}{5}$

*(Numicon and bar models)*



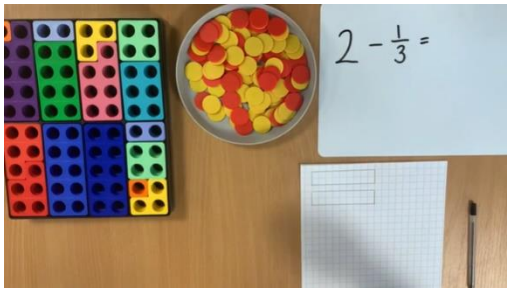

$\frac{8}{6} - \frac{3}{6} = \frac{5}{6}$

*(Numicon and bar models)*




$2 - \frac{1}{3} = \frac{5}{3}$ or $1\frac{2}{3}$

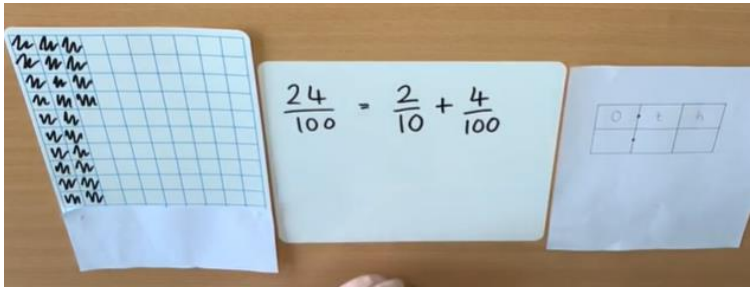
*(Numicon and bar models)*




**Objective 5:** To recognise and write decimal equivalents of any number of tenths or hundredths.

$\frac{24}{100} = 0.24$

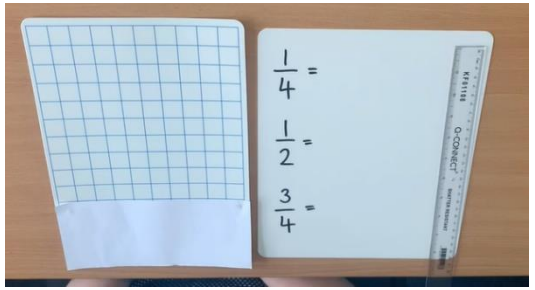
*(Blank hundreds square and place value chart)*




**Objective 6:** To recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.

$\frac{1}{4} = 0.25$, $\frac{1}{2} = 0.5$, $\frac{3}{4} = 0.75$

*(Blank hundreds square)*



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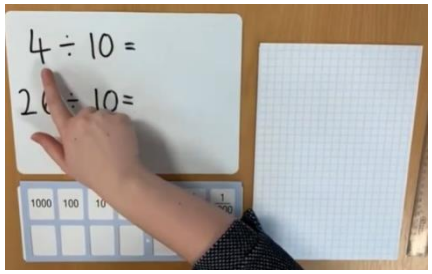
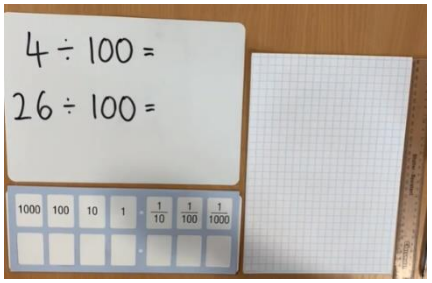
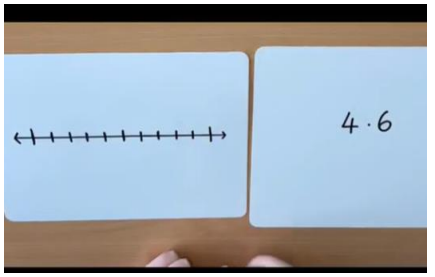
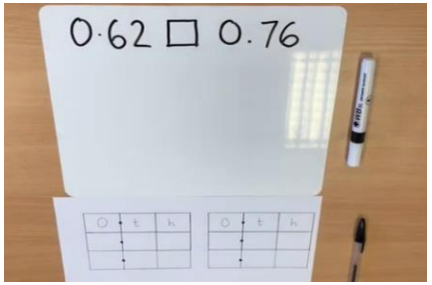
|---|---|---|---|---|
| | **Objective 7:** To find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. | | **Objective 8:** To round decimals with one decimal place to the nearest whole number. | **Objective 9:** To compare numbers with the same number of decimal places up to two decimal places. |
| | Dividing by 10<br>*(Place value sliders)*<br>  | Dividing by 100<br>*(Place value sliders)*<br>  | 4.6 → 5<br>*(Number line)*<br>  | 0.62 □ 0.76<br>*(Place value charts)*<br>  |