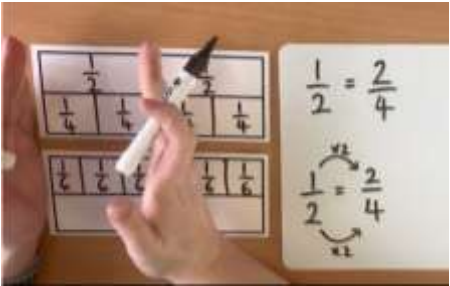
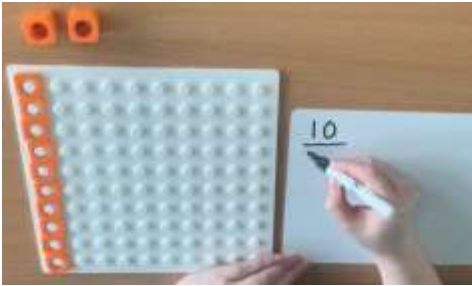
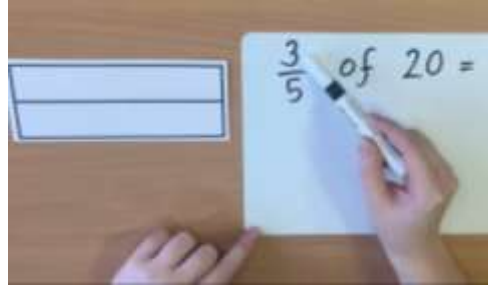
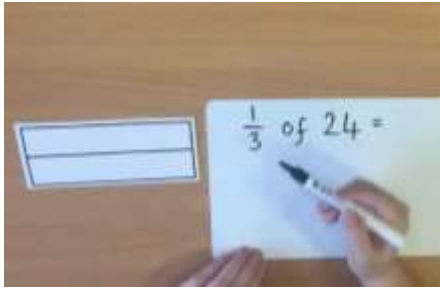


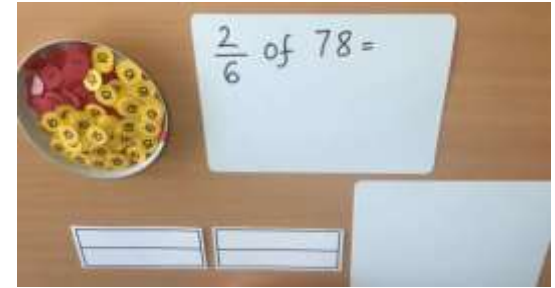
Berrybrook Primary School – Fractions and Decimals Policy

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.

<p><u>Year 4</u></p>	<p>Objective 1: To recognise and show, using diagrams, families of common equivalent fractions.</p>	<p>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.</p>
$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$ <p>(Bar models)</p> 		<p>Counting up in hundredths</p> $\frac{1}{10} = \frac{10}{100}$ <p>(Numicon)</p> 
<p>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.</p>		
$\frac{1}{3} \text{ of } 24 = 8$ <p>(Bar models and counters)</p>	$\frac{3}{5} \text{ of } 20 = 12$ <p>(Bar models and counters)</p>	$\frac{2}{6} \text{ of } 78 = 26$



(Bar models and place value counters)



Objective 4: To add and subtract fractions with the same denominator.

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

(Numicon and bar models)



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

(Numicon and bar models)



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

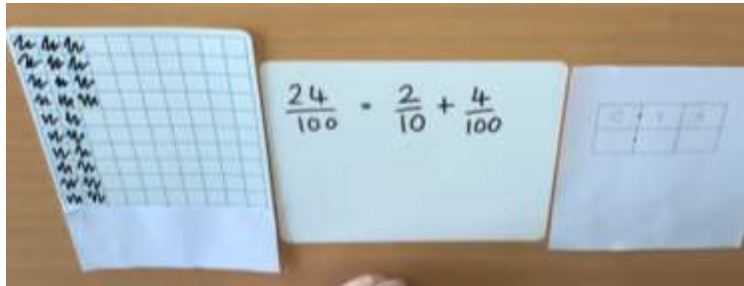
(Numicon and bar models)



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

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

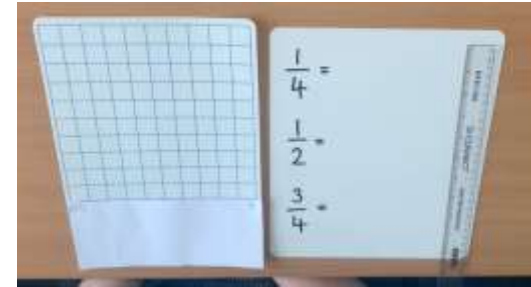
(Blank hundreds square and place value chart)



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

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

(Blank hundreds square)



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.

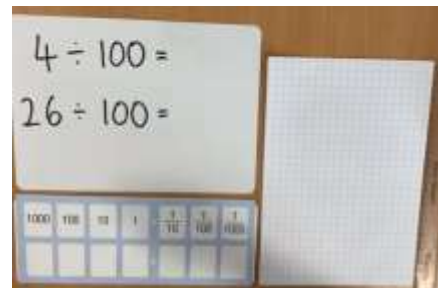
Dividing by 10

(Place value sliders)



Dividing by 100

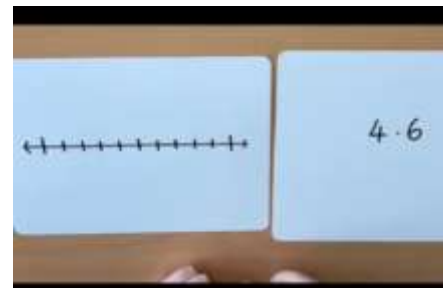
(Place value sliders)



Objective 8: To round decimals with one decimal place to the nearest whole number.

$$4.6 \rightarrow 5$$

(Number line)



Objective 9: To compare numbers with the same number of decimal places up to two decimal places.

$$0.62 \square 0.76$$

(Place value charts)

