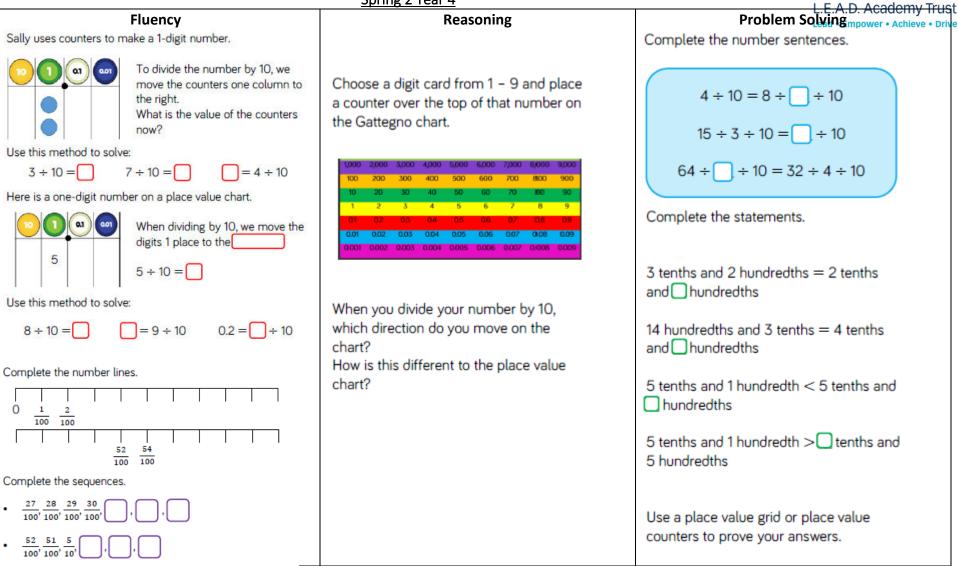
	Spring 2 Year 4		
Links to prior learning/ objectives ~ Place value of ones, tens, hundreds and thousands. ~ focused on multiplication facts for 2,5,10,3,4 and 8. ~ Strategies for multiplication and division. ~ Knowledge of what a fraction is, ordering them, finding equivalents and comparing them. ~ Knowledge of unit and non-unit fractions. ~ Understanding of symmetry and how to	Resources Counting sticks, bar models, fraction walls, physical fractions (games), Mastery: (where to find some resources) • Teaching for Mastery • White Rose New and old documents • Mastery maths stickers • Nrich (curriculum mapping)	Vocabulary: Hundredths, ascendir increasing, decreasing equivalent, multiplica diagrams, tenths, dec	g, divide, Fractions, ation, division, families,
identify it (especially vertically).	Objectives and Teaching		
Barriers to ARE (misconceptions) Week 1 Children may struggle with the place value understanding. Children may not understand how amounts are affected when they are divided by 10.	<ul> <li>Count up and down in hundredths; recognise to one hundred and dividing tenths by ten.</li> <li>To know how to count in hundredths.</li> <li>To understand how to count in hundredths.</li> <li>To understand the link between division</li> <li>To understand the link between division</li> </ul>	dths. n and tenths.	hen dividing an object by

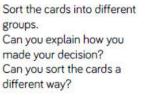




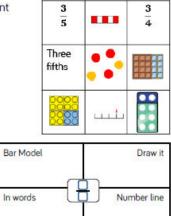


	Spring 2 Year 4		
	Here is a Rekenrek made from 100 beads. If the Rekenrek represents one whole, what fractions have been made on the left and on the right?	L.E.A.D. Academy must Lead • Empower • Achieve • Drive	
Week 2	Recognise and show, using diagrams, families of	f common equivalent fractions.	
Children may not understand what a fraction represents. Children may struggle to apply their multiplication knowledge to identify equivalent fractions. Children may struggle to use resources such as a fraction wall to recognise equivalent fractions. Children may struggle to represent a fraction	<ul> <li>To know what a fraction is.</li> <li>To know how to identify equivalent fractions.</li> <li>To develop the skill of identifying equivalent fractions.</li> <li>To understand how to identify equivalent fractions</li> </ul>		
Fluency	Reasoning	Problem Solving	





Represent the fraction you have been given in as many different ways as possible.

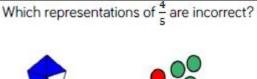


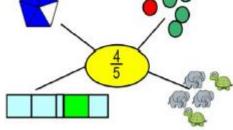
Use two strips of equal sized paper. Fold one strip into quarters and the other into eighths. Place the quarters on top of the eighths and lift up one quarter, how many eighths can you see? How many eighths are equivalent to one quarter? Which other equivalent fractions can you find?

Using squared paper, investigate equivalent fractions using equal parts. e.g.  $\frac{2}{4} = \frac{\Box}{8}$ . Start by drawing a bar 8 boxes along. Underneath compare the same length bar split into four equal parts.

How many fractions that are equivalent to one half can you see on the fraction wall? Can you draw any extra rows to show other equivalent fractions?

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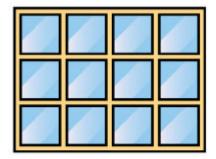


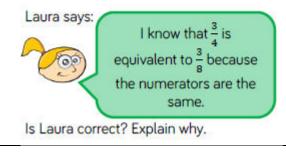


Explain how you know.

Spring 2 Year 4

How many equivalent fractions can you see in this picture?





Always, Sometimes, Never

Explain your answer.

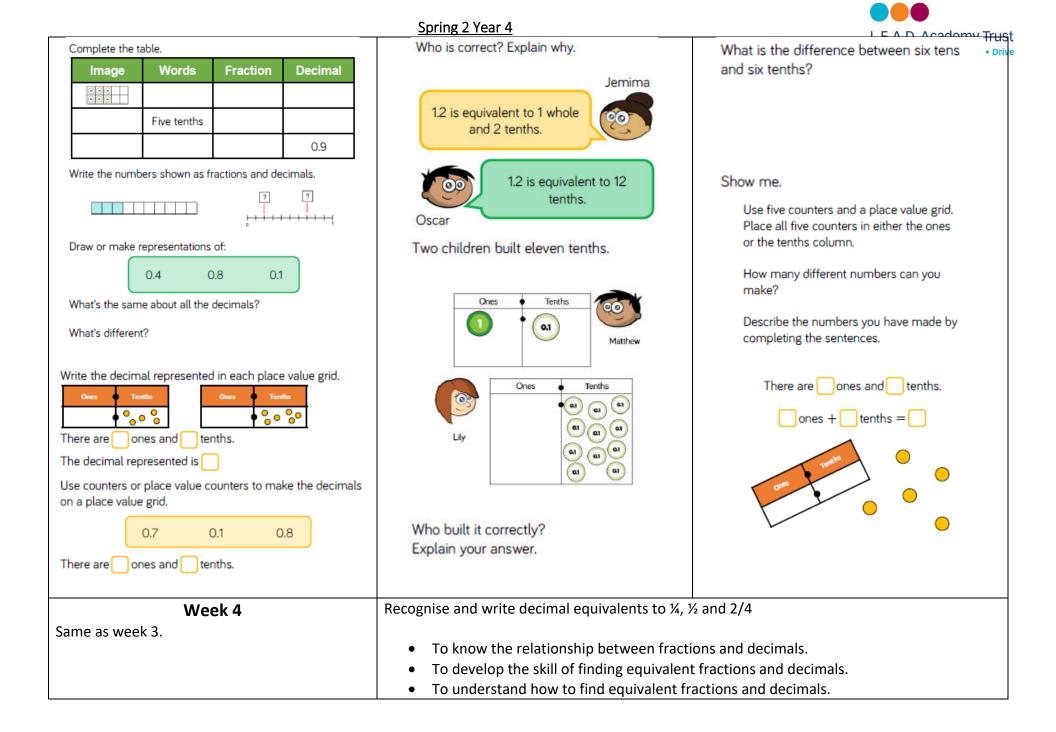
Liam has two strips of the same sized paper.

He folds the strips into different sized fractions.

He shades in three equal parts on one strip and six equal parts on the other strip.

What fractions could he have folded his strips into?

Γ	Spring 2 Year 4	E A D Acadomy Trust		
	$\frac{3}{4} = \frac{5}{6} = \frac{7}{9} = \frac{9}{11}$	Use the digits cards below to fill in the boxes.		
	I did the same thing to the numerator and the denominator so my fractions are equivalent. Shabaz	123 468		
	Do you agree with Shabaz? Explain your answer.			
		How many different ways can you find?		
Week 3	Recognise and write decimal equivalents of any number of tenths or hundredths.			
Same as above Children may struggle to see the relationship between fractions and decimals. Children may struggle to apply their understanding of division to support the conversion.	<ul> <li>To know the relationship between fractions and decimals.</li> <li>To know the place value of thousandths and tenths.</li> <li>To know how to write a decimal as a fraction.</li> <li>To develop the skill of writing a decimal as a fraction.</li> <li>To understand how to write a decimal as a fraction.</li> </ul>			
Fluency	Reasoning	Problem Solving		



Here is a Rekenrek with 100 beads.	Spring 2 Year 4 Reasoning True or False?	L.E.A.D. Academy Trust Problem Solvingpower • Achieve • Drive Louisa says:
Image: Description of the beads are red and half a white. $\frac{1}{2} = \frac{50}{100} = \frac{5}{10} = 0.5 \text{ so } \frac{1}{2} \text{ is } \square \text{ as a decimal.}$ The beads are split equally on each side of the Rekenrek.Image: Description of the beads are split equally on each side of the Rekenrek.Image: Description of the beads are split equally on each side of the Rekenrek.Image: Description of the beads are split equally on each side of the Rekenrek.Image: Description of the beads are split equally on each side of the Rekenrek.Image: Description of the beads are split equal groups = 1 out of 4 equal groups = 1 out of 4 equal groups = 1 out of 4 equal groups = 1 out of 1 equal groups = 1 out o	$\frac{1}{2} = 1.2, \ \frac{1}{4} = 1.4 \text{ and } \frac{3}{4} = 3.4$ Explain your answer.	If I know $\frac{1}{2}$ is 0.5 as a decimal, I also know $\frac{3}{6}$ , $\frac{4}{8}$ and $\frac{6}{12}$ are equivalent to 0.5 as a decimal. Explain Louisa's thinking.
$\frac{3}{4} = \frac{1}{100} = 1$ Week 5	Consolidate	
Fluency	Reasoning	Problem Solving