Pre test score: 8/39	Post test score:19/39
How has this child made progress (attitude towards fractions, under misconceptions overcome) Pupil A approaches fractions enthus fractions involving whereas previous they recorded the fraction incorrectly now been rectified. They are able to is beginning to simplify fractions to numbers and confidently draw their and solving of problems. They a percentages. What has been the biggest influer (tasks, resources, representations, i The rich task widely influenced this learn fraction skills for themselves, representations in different formats different ways has given them a new of what this means / looks like. Having lots of smaller group session for this child and target intervention	s? erstanding of fractions, application of fractions siastically and is happy to attempt problems involving usly they would have left them unattempted. Initially y (denominator mixed up with the numerator), this has o show a full understanding of part whole fractions and o their lowest form. They are able to find fractions of own visual representations to support understanding are able to relate some fractions to decimals and nce on this child's progress? intervention) s child's progress as they were able to discover and , allowing the time to explore fractions. Using visual s and showing how fractions can be represented in way to represent these and a deeper understanding ons with a teacher has helped identify misconceptions as well as spending more time on fractions than you
What improvements have they sh (pick out examples from the test pap Pupil A is able to identify where the ways and is beginning to make links They use visual representations to h 19 Pupil A is able to draw visual repr numbers – e.g. question 30 and 2 represent this visually. They use visual representations to h What improvements have you see	nown in use of visual representations? per) same fraction can be visually represented in differents with this to equivalent fractions. (question 14) help further understand problems – e.g. question 17 presentations to help support their learning of mixed 22 and now shows a firm understanding of how to help solve quotient questions (question 25). en in their fluent use of fractions?
(What evidence have you got to sup Pupil A is able to make further links whole visual representations to solve Pupil A uses visual representations visually and this helped them to und	oport this?) s between different areas of fractions – e.g. using par e equivalent fraction problems. to solve linear problems – e.g. 8 / 4 – they drew this derstand where it would be placed on the number line.









How has this child made progress?		
(attitude towards fractions, understanding of fractions, application of fractions,		
misconceptions overcome)		
Pupil B has shown increased confidence when handling fractions. Pupil B was quieter		
than some during the 'Fair Feast' task but did contribute.		
What has been the biggest influence on this child's progress?		
(tasks, resources, representations, intervention)		
Fair Feast was a non-threatening way in. Involvement in a group and not just one child.		
Visual representations of one fifth of a set helped to find two fifths of a set.		
Intervention opportunity meant that we stopped when unsure of non-unit fractions and		
when back to simple fractions of a set.		
What improvements have they shown in use of visual representations?		
(pick out examples from the test paper)		
Pupil B has not particularly used own visual representations in either test but does use		
them in class more.		
In the second test did attempt using own visual representation to solve $\frac{1}{5} + \frac{2}{5}$ but still came		
up with $\frac{3}{2}$ as the answer. But this is progress from the pre-test.		
What improvements have you seen in their fluent use of fractions?		
(What evidence have you got to support this?)		
Part-whole – visual and quantity is well developed and more fluent – evidence from work		
in books.		
Need to further develop linear representations. Can attempt with simple fractions and		
mixed numbers but not improper fractions		
Improved with the use of quotient but not fluent.		

## Pupil C Case Study

Pre test score: 7/39	ost test score:14/39		
How has this child made progress?			
(attitude towards fractions, understanding misconceptions overcome)	of fractions, application of fractions,		
Pupil C has got a more positive attitude towards fractions and is more confident. They			
have developed a really good understanding of quotient fractions. Their understanding			
(according to the questionnaire) has moved from 4 to 9 (out of 10).			
What has been the biggest influence on this child's progress?			
(tasks, resources, representations, intervention)			
The use physical things (cups, food etc)			

It has helped that a lot of the activities were based on real life context to apply learning to. Also during focused group time they were able to discuss ideas, calculations and worries one-to-one. Having one-to-one meant that there was more time to focus on any issues and talk through them to find the correct answers.









What improvements have they show	wn in use of visual representations?	
(pick out examples from the test pape In the first test they drew circles and thirds in a whole? – drew a circle and In the second test they logically used friends – drew 4 cakes, shared them i fifths.)	r) d it seemed they didn't know why (e.g. How many drew three lines to split the circle into sixths). d drawings to help (e.g. 4 cakes shared between 5 into fifths and then draw the people to share out the	
What improvements have you seen (What evidence have you got to suppor They have a much better understandin coming from (this is due to the rich tas scenario). At the beginning of the proj and they seemed to frighten them. Aff fractions activity.	in their fluent use of fractions? ort this?) ng of quotient and can explain where their ideas are sk and putting the context of fractions into a real life ject they had no idea how to calculate with fractions ter the fractions day they will now have a go at any	
Pupil D Case Study		
Pre test score: 12/39	Post test score:17/39	
How has this child made progress?		

(attitude towards fractions, understanding of fractions, application of fractions, misconceptions overcome) Improved confidence towards fractions – able to see link between equivalent fractions -  $\frac{2}{4}$ 

and  $\frac{1}{2}$  are the same because  $2 \div 1 = 2$  and  $4 \div 2 = 2$ .

What has been the biggest influence on this child's progress? (tasks, resources, representations, intervention)

Representations - to begin with only confident with part-whole (e.g.

Now able to use part-whole quantity (e.g.

What improvements have they shown in use of visual representations? (pick out examples from the test paper)

Opportunity for reasoning about what they see.

in the pre-test this would have been  $\frac{1}{3}$  but in the second test it was answered as  $\frac{3}{4}$ . Now I know its  $\frac{3}{4}$  because 3 are shaded out of a total of 4.

What improvements have you seen in their fluent use of fractions? (What evidence have you got to support this?)

Able relate to multiplication and division. I know  $\frac{3}{6}$  is the same as  $\frac{1}{2}$  because 3 is half of 6.

Pupil E Case Study









Pre test score: 7/39	Post test score:20/39	
How has this child made progress? (attitude towards fractions, understanding of fractions, application of fractions, misconceptions overcome) More willing to attempt fractions questions. Much more able to find a fraction of an amount Part-whole used in different ways		
Quotient - thinking about $\frac{3}{4}$ as 3 pizzas shared between 4 people and so how much of the		
total amount they would have. Most of these questions are now answered correctly.		
What has been the biggest influence on this child's progress? (tasks, resources, representations, intervention) Intervention group allow explanation of thinking and sharing of ideas. Discussion in groups of how others have represented questions helps them to explain what resources and drawings they have used. Small group work allowed more focus on the task.		
What improvements have they shown in use of visual representations? (pick out examples from the test paper) Question 25 (quotient) – drew the chocolate bars and divided one bar in twelves and worked out all would get $\frac{8}{12}$ .		
Question 21 (quotient) – draw pictures and solved similar to above Chocolate drawn as rectangles. Others drawn in different ways. Images were also drawn for other questions to show thinking of what the fraction looks like.		
What improvements have you seen in their fluent use of fractions? (What evidence have you got to support this?) More evidence of using multiplication and division. Initial group ideas were to cut each cake into sevenths to work out how many sevenths each would get. This has moved away from finding half, quarter, eighths as a default way to find a fraction of a shape.		







