Task:					Number Line Game	e (1	(8)
Approach:	pprogch: Group				Vear	8	
Focus:	Fractions, decimals and percentages				Tear.	0	
Resources:	Felt board, 12 cards, 2 recording sheets						
Questions / instructions:							
Put the cards	s in a pile face	down on the table.					
Lie the felt board flat on the floor or desk.				0 -		2	
Point to the C	U, 1 and 2 on t	ne number line.					
						% resp	onses
This is a num	ber line betwee	en 0 and 2.					y8
Each of you is going to take a card from this pile and put on the number line where you think it should go.					inner zone $(0.55 - 0.75)$		32 13
To start with, each person puts the card on the number line				•	not within zones		56
on their own. Later on you will work together to change a of the cards around.				ne	inner zone (0.65 – 0.85)		69
Have Student 1 (or a confident maths student) start by					outer zone (0.55 – 0.95)		14
taking the first card and putting it on the number line.					0.75 not within zones		17
Record on recording sheet 1 where the card is placed.					(1 1 1 2)		79
Then have Student 2 place the next card on the number				r	$\begin{array}{c} \text{IIIIel Zolle} (1.1 - 1.3) \\ \text{outer zope} (1.05 - 1.4) \end{array}$		10
line. Record	on recording	sheet 1 where the card	is		1.2 not within zones		12
		1					12
Keep going until all the cards are placed.					inner zone (1.15 – 1.35)		73
As a team I want you to discuss if you think all the cards on the number line are in the right places. If you all agree, you				וו	125% outer zone (1.05 – 1.45)		11
can move the cards to other places on the number line.					not within zones		17
When you have decided everything is in the correct place, I'll copy it onto this sheet.					inner zone (1.4 – 1.6)		58
Allow time.					$\frac{3}{2}$ outer zone $(1.3 - 1.7)$		13
1 Have you got the cards all in the right places?					Hot within zones		20
I. Have you got the cards all in the right places?				onses	inner zone (1.4 – 1.6)		88
If you are infished, the copy down your number line.				y8	$1\frac{1}{2}$ outer zone (1.3 – 1.7)		9
Record on the recording sheet where all the cards are placed in their final positions.					not within zones		3
					inner zone $(1.9 - 2.1)$		96
Accuracy of placement: [Note: Scores are based on team responses.]				outer zone $(1.8 - 2.1)$		0	
			10	200% not within zones		4	
		111111111111111111111111111111111111		42 26			
	12.5%	not within zones		33	Total score: 22–24		18
					19–21		17
		inner zone <i>(0.2 – 0.4)</i>		52	16–18		20
	0.3	outer zone <i>(0.1 – 0.5)</i>		28	13–15		18
		not within zones		20	10-12		20
	\frown	inner zone <i>(0.3 – 0.5)</i>		51	7.0		20
	40%	outer zone (0.4 – 0.6)		16	7-9		4
		not within zones		33	4-0		2
	\sim	inner zone $(0.4, 0.6)$		10	0–3		2
	1	$\frac{1}{1000} = \frac{1}{2000} = \frac{1}{1000} = 1$		6	Commentary:		
	2	not within zones		45	More than half of the teams placed the cards in	tha ii	apor
					zones for eight of the 12 task components. Placen	nent	of 5
		inner zone (0.55 – 0.7)		29	and $\frac{2}{3}$ caused the most difficulty. Some groups we	re hi	ghly
	b outer zone (0.45 –			12	accurate across all components. On the placement o	f <u>1</u> , m	nany
		not within zones		59	teams thought they were placing $\frac{1}{2}$ of 2, producing an	incor	rrect
					result.		