Task: Tan	Tangram		
Approach: One to one Year:	4 8	8 8	
Focus: Fractions of a whole			
Resources: Tangram puzzle			
Questions / instructions:	% resp y4	onses y8	
Hand student the tangram.			
Here is a puzzle called a tangram.			
It is a square made up of 7 pieces.			
As I point to different pieces, decide what fraction of the whole tangram that piece is. You can take the pieces out and move them around if you want to.			
Point to red piece.			
 What fraction of the whole tangram is this red piece? 	38	77	
2. How do you know that? clear explanation	19	54	
some explanation	15	20	
vague or no explanation	65	26	
Point to blue piece.			
 What fraction of the whole tangram is this blue piece? 	6	35	
4. How do you know that? clear explanation	2	23	
some explanation	4	11	
vague or no explanation	94	66	
YEAR 8 ONLY:			
Point to green piece.			
5. What fraction of the whole tangram is this green piece?		32	
6. How do you know that? clear explanation some explanation		21 9	
vague or no explanation	•	70	
Total score: 9	•	16	
7–8 5–6	3	9	
3–4	19	25	
1–2	16	17	
[Note: Maximum score of 6 for year 4] 0	62	22	
Commentary: Students had difficulty in actimating fractions in this visual tack			

Students had difficulty in estimating fractions in this visual task. They were not strong at explaining their approach. Substantial growth was seen, however, from year 4 to year 8.