Maths adviser

Approach: One to one

Level: Year 4 and year 8

Resources: 7 cards and a packet of 15 wooden cubes.

Ouestions/instructions Let's imagine that someone in your class needs some help with maths, and that you are going to try to explain the answers.

I'll ask the questions, and you

try to explain the answers. You will need to say more than "yes" or "no" — because you want them to understand. Use the cubes to help show what you mean.

Encourage the student to use the cubes and explain an answer, rather than just saying yes, no or maybe. Show cards 1a and 1b % responses

1. Is 4 plus 3 the same as 3 plus 4?	v4	
Prompt: Show me using the cubes.	2	

Correct conclusion: with demonstration 81 95

not demonstrated 15 - 4

Show cards 2a and 2b

2. What about 4 minus 3 and 3 minus 4? Are they the same?

Prompt: Show me using the cubes.

- Correct conclusion: with demonstration 47 76
 - not demonstrated 13 11

		% rest	onses	
	Show cards 3a and 3b	y 4	y8	
	3. Does 2 times 5 give the same			
	answer as 5 times 2?			
	Prompt: Show me using the cubes.			
	Correct conclusion: with demonstration	38	68	
	not demonstrated	40	28	
•	 Show card 4. Note — cubes are not used for these questions. Place card with '7' on it in front of the student. 4. Is there a number you can add to, or take away from this number, but the number still stays the same? Tell me what it is and how this works. Correct, good explanation of: both addition and subtraction only one operation 	29 10	52 5	
(Correct: but inadequate explanation	13	20	
-	5. What about multiplying or dividing. Is there a number you can multiply (or times) this number by, or divide it by, so that the number stays the same? Tell me what it is and how this works.			
(multiplication and division	10	/11	
	only one operation	10	17	
(Correct: but inadequate explanation	7	20	



v4	vð
ут	yc