## **Extension - Creating their own problems**

In order to solve *Cooperative Logic* problems students need to *understand* the numeracy related language within them.

You can go one step further and encourage students to *use* the language themselves by creating a problem of their own.

This can either be done with the whole group or, if there is a wide spread of abilities, it can be done with small groups who finish earlier than others.

Distribute some scrap paper cut into clue sized pieces.

## Explain:

- I want you to create a new 'What's the decime number ' problem similar to the ones you have already solved
- First invent a decimal number
- Then write your own set of clues
- Later you will give it to another group to olve
- Make sure you use some of the defimal language that is in the other problems e.g. tenths, second decime in language that is in the other problems e.g. tenths, second decime in language that is in the other problems.
- Your problem is only a good ane if it can be solved by other propret
- So don't try to make it so are that they can't solve if
- Remember to keep a copy five it solution to check with.

The students' problems out to other small groups to solve either during that class or in a follow up session. Students tend to enjoy uses spect very much.

Get groups to compare an weap and discuss any difficulties afterwards.

Although more the consuming, it may uso be of benefit for them to observe another group trying to olive their problem as they can pick up any mistakes in language or expression or themselves.



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What's the decimal number - 1	What's the decimal number - 1
The decimal point is not at the end	The digits are in order from smallest to biggest
What's the decimal number - 1	Wh. *'s t' le decimal nui, ber - i
Only the digite 1 to 4 are used	There are more bundredths than tenths
There are no thousanoths	It is a decimal number - 1  It is a decimal number with four digits



What's the decimal number - 2	What's the decimal number - 2	
The number is bigger than 5	The number is smaller than 6	
What's the decimal number - 2	What's the decimal number - 2	
The middle digit is 2	The last digit is coree times the second digit	
What sine decimal number - 2	What's the decimal number - 2	
All of the orgins are	It is a decimal	
odd numbers	number with three digits	



What's the decimal number - 3
The second digit is twice the first digit
What's the decimal number - 2
The tenths figure is an odd number
What's the decimal number - 3
The number is less than 100



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What's the decimal number - 4	What's the decimal number - 4		
The number has three digits	The number is between 3 and 7		
What's the decimal number - 4	What's the decimal number - 1		
The sum of the digits is 14	The nundredths digit		
West Construction of the C	AMbarka tha da sinaal muushan A		
What sine decimal number - 4	What's the decimal number - 4		
The tenths digit is the	One of the digits		
largest	is 8		
<i>O</i> ,			



What's the decimal number - 5	What's the decimal number - 5		
The number is less than 3	There are four digits		
What's the decimal number - 5	What's the decimal number - 5		
The number is just bigger # an 2	There is a zero in the number		
What are decimal number - 5	What's the decimal number - 5		
There are almost 50 thousandths	Two of the digits are 4 and 9		



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What's the decimal number - 6	What's the decimal number - 6		
The number is greater than 7	The number is smaller than 7.1		
What's the decimal number - 6	What's the decimal number -		
The number has three digits	Two of the digits are odd		
What are decimal number - 6	What's the decimal number - 6		
Zero s one	Two of the digits		
of the digits	total 10		
<i>O</i> ,			



What's the decimal number - 7	What's the decimal number - 7		
The number has four digits	The first digit is double the last		
What's the decimal number - 7	What's the decimal number - 7		
The number is greater than 15	The are 7 tenths in the number		
What sine decimal number - 7	What's the decimal number - 7		
The number is less than 30	The difference between the middle digits is one		



## Numbers

0	6		91	6
1	7	0	01	(Oz.)
2	80		2	8
3	9	Ö	3	9
4			4	•
50			5	

