RECALL - POP QUIZ

- 1. Find 25% of 120
- 2. Write 60% as a fraction and decimal
- 3. Find 60% of 90
- 4. Find ?

25% of ? = 13

- 5. What percentage of the grid is shaded?
- 6. Find ?



30% of ? = 48





LEARNING HABITS?



GUIDED PRACTICE

Can you visit every square on the board just once?

You can start anywhere and you can only move your 'Knight' in an L shape: 1 square in one direction and 2 in the		1	2	
other.	3	4	5	6
	7	8	9	10
		11	12	

To see how well you have done, you can subtract the total of the unvisited numbers from 78.

The higher their final total, the better they will have done.

INTELLIGENT PRACTICE



DIVE DEEPER

SQUARES ON A CHESS BOARD

How many squares are there on a chessboard?

Work systematically to try and find all the possible squares.

Think carefully about how you record you work.





What happens on an 'n by n' board?

DIVE DEEPER

EIGHT QUEENS

This is a famous problem: Place eight queens on a chessboard (an 8 by 8 grid) so that none can capture any of the others.

Remember that a queen can move any number of squares across, down or diagonally.

Is there more than one solution?





Use counters to help you solve this

SELF-ASSESSMENT

- Some will even be able to generate rules to solve a complex problem
- Some will be able to organise their investigation to ensure they don't duplicate answers
- Most will be able to continue to investigate to try and find the final solution and not just 'a' solution
- All will be able to record their findings