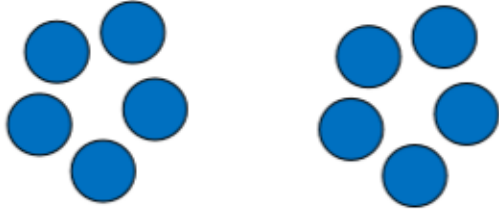




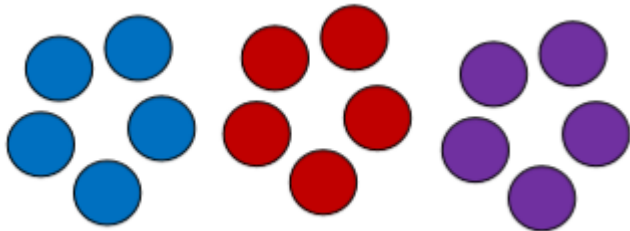
Progression in Multiplication calculations

M1: Groups of objects or pictures



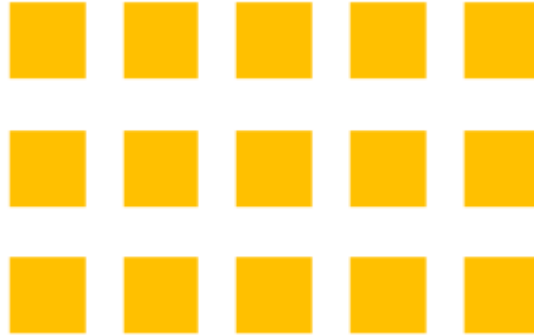
2 groups of 5 counters makes 10 counters altogether

M2: Repeated addition



$$5 \times 3 = 5 + 5 + 5 = 15$$

M3: Arrays



$$3 \times 5 = 15 \quad \text{or} \quad 5 \times 3 = 15$$

M4: Partitioning

1	5	x	5	=		
1	0	x	5	=	5	0
	5	x	5	=	2	5
					7	5

M5: Column multiplication

	H	T	U
	1	4	7
x			4
	5	8	8
	1	2	

M6: Long multiplication

	Th	H	T	U		
			4	3		
x			6	5		
		2	1	5	(43x5)	
			1			
	2	5	8	0	(43 x 60)	
		1				
	2	7	9	5		