

Two Pan Balance

Trinary Problem

1 g	3 g	9 g	27 g	Mass (g)	1 g	3 g	9 g	27 g
				1				
				2				
				3				
				4				
				5				
				6				
				7				
				8				
				9				
				10				
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				12				
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				14				
				15				
				16				
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				32				
				33				
				34				
				35				
				36				
				37				
				38				
				39				
				40				

Mark the columns of which of the 4 masses combine to perfectly balance the mass in the center column. Each of the 1, 3, 9, and 27 g masses can be used only once for each measurement.