

Balance Quest® Thirty-two Puzzle Instructions

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Complete a **Balance Quest** large puzzle by filling in the empty boxes with positive and negative numbers in a way that balances the sums between all values in the grid.

Sample Puzzle:

The grid consists of 12 columns and 12 rows. Shaded boxes (grey) contain numbers: -8, 4, 13, -15, 12, -3, 2, 16, -14, 3, -10, 11, -9, -12, 8, -13. White boxes contain numbers: -2, 23, 15, 4, 18, 22, 5, 0, 3, -10, -28, -20, -17, 30. Question marks are in white boxes at (1,1), (2,1), (3,4), (4,4), (5,4), (6,4), (7,4), (8,4), (9,4), (10,4), (11,4), (12,4), (1,11), (2,11), (3,11), (4,11), (5,11), (6,11), (7,11), (8,11), (9,11), (10,11), (11,11), (12,11). Dashed boxes at the top show equations: $? + 4 = -2$, $4 + ? + ? + 18 = 0$, and $22 = 5 + ?$. Dashed boxes at the bottom show instructions: \leftarrow No duplicate numbers ... $\uparrow \downarrow$... in white (or grey) boxes \rightarrow .

Puzzle Rules:

1. The value in each white box equals the sum of its adjoining half-height boxes (see examples within the dashed bubbles at top)
2. The shaded boxes include all numbers from -16 through 16, except 0.
3. No duplicate numbers may exist among the white boxes, or among the shaded boxes, but duplicate numbers may exist between the white and shaded boxes.

Please use a pencil with an eraser.

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Sample Puzzle Solution:

-1	-9	-11	4	0	18	-4	-16	-2		
-8										
-6	-2								12	3
4										9
13	23	15					5	15		
10								-10		
7	-8					22	17	6		
-15								11		
1	13	3	40			-14	-9			
12								-5		
-7	-10					-42	-28	-16		
-3								-12		
5	7	37			-62	-3	-11			
2								8		
14	30				-20	-17	-13			
16							-4			