



Sudoku Puzzle

		4		3	1			
	1		4	2	6	9		
9	3			5				7
4	7	2					1	
	5					3	6	9
3			8				7	2
	8	5	7	4			3	
		7	9		8			

Directions: Find the numbers from 1 to 9 that fill in the blank locations in the pattern, and achieve the following rules: Each number must appear only once in the same row and the same column and the same 3-by-3 square.

This puzzle was created for A Sandusky Bay Journal by James Bunner, a retired electrical engineer living in Erie, Pennsylvania.



Zed by duane m. abel

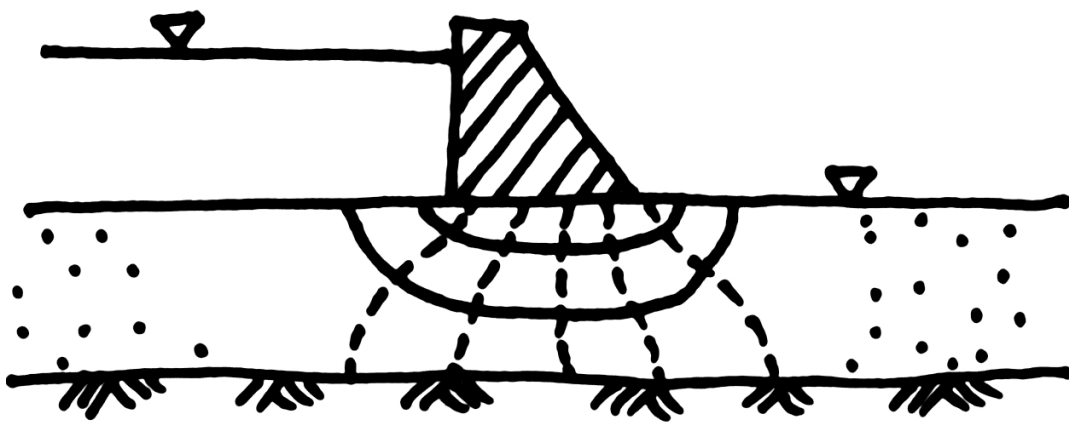


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SHIVER ME TIMBERS by: Robert L. Summers



What Does This Graphic Depict?



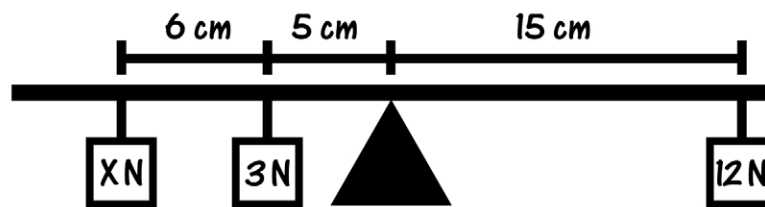
A torque, or a moment, is equal to the force (F) times the distance (D) measured perpendicular to the force

Torques that cause a clockwise rotation are called positive moments
Torques that cause counterclockwise rotation are called negative moments

A lever will not rotate if the sum of the clockwise torques is equal to the sum of the counterclockwise torques

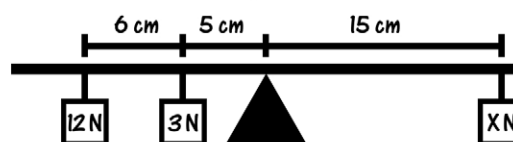
Forces of 3, 12 and X newtons are applied to a weightless board that is resting on a fulcrum. These forces balance the board so that it does not rotate.

WHAT IS THE MAGNITUDE OF FORCE X?



After calculating the magnitude of force X, suppose that the forces of X and 12 switch locations.

WOULD THE BOARD ROTATE CLOCKWISE, ROTATE COUNTERCLOCKWISE, OR REMAIN BALANCED?



Answers to Last Month's Problems

Whoops!* October 2009 Artwork



Paul Gauguin (French, 1848-1903). *Breton Girls Dancing, Pont-Aven, 1888*. Oil on canvas; 73 x 92.7cm. National gallery of Art, Washington, Collection of Mr. and Mrs. Paul Mellon 1983.1.19. Image courtesy of the Board of Trustees, National Gallery of Art, Washington Post-Impressionist

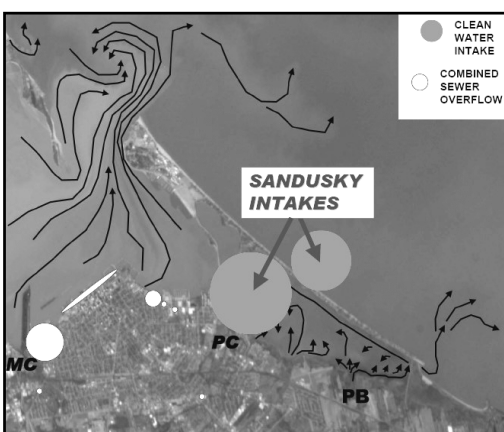
*This answer should have run in last month's answer section.

Last Month's Artwork



Louis Anquetin (French, 1861-1932). *Avenue de Clichy, 1887*. Oil on canvas; 69 x 53cm. Wadsworth Atheneum Museum of Art, Hartford, CT. The Ella Gallup Sumner and Mary Catlin Sumner Collection Fund 1966.7. © Wadsworth Atheneum Museum of Art, Hartford, CT. The Ella Gallup Sumner and Mary Catlin Sumner Collection Fund Post-Impressionist

What Does This Mean?



The circles and ovals on this map show the relative locations of the City of Sandusky's drinking-water intakes, and its dirty-water outflows.

The arrows on this map show the direction of water currents, based on the patterns of sediment in the water.

We can see here that the dirty-water outflows are not located near the drinking-water intakes. That's very good news, and probably not an accident!

Last Month's Math Problem

If x^y means $x^y y^x + 15x(1/y)$ what is the value of $1*3$?

$$(1^3)(3^1) + 15(1)(1/3) = 8$$

The value of $1*3$ is 8

Last Month's Sudoku Puzzle

1	9	4	7	5	3	2	6	8
5	7	3	6	8	2	4	9	1
8	6	2	9	1	4	3	7	5
9	3	1	2	7	5	8	4	6
6	4	8	3	9	1	5	2	7
7	2	5	4	6	8	1	3	9
3	5	9	8	2	7	6	1	4
4	1	6	5	3	9	7	8	2
2	8	7	1	4	6	9	5	3

