

## KAKURO

The object of a Kakuro is to insert digits from 1-9 into the white cells to total the clue associated with it. However no digit can be duplicated in an entry. For example the total 6 you could have 1 & 5, 2 & 4 but not 3 & 3. Sound simple? Be warned it gets hard and is as addictive as SuDoku.

	6	7	16			3	11	
6	3	2	1		4	3	1	2
7	2	1	4	3	11	1	2	5
16	1	4	6	2	3	15	4	3
		10	4	3	1	4	4	3
	3	3	1	2	4	4	3	1
4	1	3	4	15	3	1	5	2
10	2	4	3	1		7	4	1
		3	2	1		6	2	3

### Odd One Out!

Which of the following does not belong to the set?

81

63

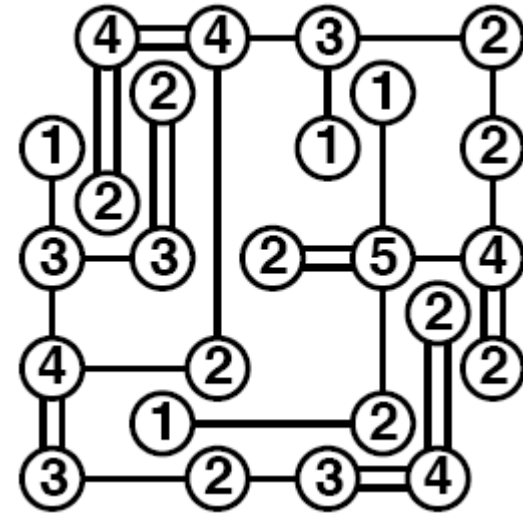
25

16

49

## BRIDGES

Connect these islands with bridges until each island can be reached from any other island, and each island has as many outgoing bridges as its number. You may only connect islands horizontally or vertically AND bridges may not cross. There may be one or two bridges connecting pairs of islands, but no more than two.



### Find the Pattern!

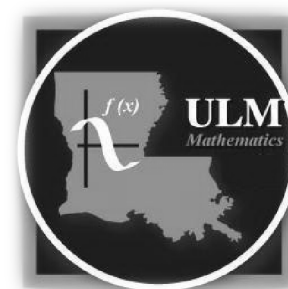
Determine the pattern and apply it to each row.

2	4	12	48
10	20	60	240
25	50	150	600
31	62	186	744

## SUDOKU

Solve this puzzle by filling in the grid so that each row, column, and jigsaw region contains 1-9 exactly once and  $\pi$  three times.

4	9	7	$\pi$	5	2	$\pi$	3	$\pi$	6	8	1
$\pi$	$\pi$	$\pi$	8	4	7	9	6	1	5	2	3
2	8	$\pi$	1	3	5	6	$\pi$	9	7	4	$\pi$
1	6	$\pi$	7	2	8	3	$\pi$	5	4	9	$\pi$
5	3	9	6	$\pi$	4	1	2	8	$\pi$	$\pi$	7
9	4	5	$\pi$	$\pi$	$\pi$	7	8	3	2	1	6
$\pi$	$\pi$	1	3	8	6	2	5	$\pi$	9	7	4
6	$\pi$	2	5	7	1	4	9	$\pi$	$\pi$	3	8
3	7	8	4	6	9	$\pi$	1	2	$\pi$	$\pi$	5
$\pi$	5	3	2	$\pi$	$\pi$	8	4	7	1	6	9
7	2	4	9	1	3	5	$\pi$	6	8	$\pi$	$\pi$
8	1	6	$\pi$	9	$\pi$	$\pi$	7	4	3	5	2



## MATH CHALLENGE

Use the numbers 1 through 9 to complete the equations.

Each number is only used once.

Each row is a math equation. Work from left to right.

Each column is a math equation. Work from top to bottom.

3	+	2	-	4	1
-		+		+	
5	x	7	-	6	29
-		x		-	
8	x	1	-	9	-1
-10		9		1	