

FIGURE LOGIC

by Linda Thistle

BEGINNER

Solve Figure Logic by completing some simple arithmetic problems, which will enable you to move from clue to clue through the puzzle. You may discover that, at times, you will not be able to complete an entire number at first, but you may be able, by logic, to determine what one or more of the digits must be. If you enter those digits into the diagram, they may help you to solve other clues, and you can eventually return to the unfinished numbers and finally complete them. To help you begin, we've entered the second digit of the answer to 14-Across, "2," as a starting help. Since 14-Across's clue is "Three less than 7-Across," you can now enter the second digit of 7-Across.

NOTE: A square of a number is that number multiplied by itself. For example, the square of 6 is 36 ($6 \times 6 = 36$). A square root is a number whose square is the given number (6 is the square root of 36). A product is the number resulting from the multiplication of two or more numbers (24 is the product of 6 and 4). A multiple is a number that is the product of a specific number and another number (30 and 24 are both multiples of 6, since $6 \times 5 = 30$ and $6 \times 4 = 24$). A factor is a number that divides evenly into another number (4 is a factor of 12). A prime number is a positive whole number which is divisible only by 1 and itself. For example, 2, 3, 5, and 7 are prime numbers. A palindrome is a number that reads the same forwards and backwards.

ACROSS

1. Three times 18-Across
3. 7-Across plus 17-Down
5. Ten more than 3-Across
7. Forty less than 2-Down
9. Digits of 15-Down rearranged
11. Consecutive digits in ascending order
13. One less than 19-Across
14. Three less than 7-Across
16. Ten more than 14-Across
18. 5-Across plus 16-Across
19. Three times 10-Down

DOWN

1. One-half of 12-Down
2. Same digit repeated
4. Six times 2-Down
6. Six more than 4-Down
8. 13-Down minus 6-Down
10. Ten more than 1-Down
12. Digits of 1-Across reversed
13. Sum of its digits is 16-Across
15. One-fourth of 13-Across
17. Six more than 16-Across

1		2		3	4
		5	6		
7	8		9	10	
	11	12			
13				14	15 2
		16	17		
18			19		

Solution on the next page.

**FIGURE LOGIC
SOLUTION**

2	2	5		4	3
6		5	3		3
1	5		3	2	0
	4	5	6	7	
8	1	2		1	2
7		2	2		0
7	5		8	1	3