

FIGURE LOGIC 1

BEGINNER

by Linda Thistle

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 6-Across, "7," as a starting help. Since 6-Across's clue is "Six more than 8-Across," you can now enter the second digit of 8-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 cube of a number is that number multiplied by itself and multiplied by itself a second time (27 is the cube of 3, since $3 \times 3 \times 3 = 27$). 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. Its first digit is the sum of its other digits
3. 4-Across minus 13-Across
4. One-fifth of 10-Down
5. Eight more than 10-Across
6. Six more than 8-Across
8. Its first digit is three times its last digit
9. One-fourth of 3-Across
10. Its first digit is four times its last digit
11. 12-Across minus 8-Across
12. Nine more than 1-Down
13. Digits of 11-Across reversed
14. 1-Across minus 6-Across

DOWN

1. Consecutive digits in descending order
2. 1-Down plus 9-Down
3. 14-Across plus 2-Down
5. One-half of 7-Down
6. One hundred less than 5-Down
7. Its first digit is the sum of its other digits
9. Digits of 6-Down reversed
10. Consecutive digits rearranged
13. Eight more than 9-Across

