

4-5 Puzzle: Chasing Down the Clues

Writing a Function Rule

The 12 clues given below lead you up a winding path from the value of b to the value of x . Notice that the value of b is given in the path at the right.

- For each clue below, write and solve a linear equation in two variables. Place each answer in the appropriate box.
 - Using the value of b , start with clue 12 and work your way up the path.
 - Use the chain of clues to find the value of x . (*Hint:* You have correctly answered all the clues if the value of x equals the greatest perfect square less than 100.)
1. I am a number x that is three times a less 15.
 2. I am a number a that is twice the sum of 4 and d .
 3. I am a number d that is twice h plus 12.
 4. I am a number h that is twice n .
 5. I am n . I am twice r less 10.
 6. I am a number r three less than c .
 7. I am c and -2 times q .
 8. I am q . Find me by multiplying m by 2 and then subtracting 70.
 9. I am m , twice s plus 5.
 10. I am s and 2 more than twice p .
 11. I am p and twice z less 40.
 12. I am z . To find me, multiply b by 3, then subtract 7.

