SEEING IS DESCRIBING

1. How many pieces are white? (50)

2. How many pieces are black? (50)

3. How many pieces are green? (50)

4. How many pieces are red? (50)

5. How many pieces are yellow? (50)

6. How many white struts have at least one end that is not connected to a node? (50)

7. What is the largest number of white struts emanating from a single node? (50)

8. How many nodes are connected to exactly one white strut? (50)

9. How many nodes are connected to no white struts? (50)

10. How many white struts are not connected to any nodes? (50)

11. How many different lengths of white struts are there in this structure? (100)

12. What is the brand name of this product? (100)

13. On each white strut are several quarter-circle grooves. How many of these grooves are there in the entire structure? (100)

14. How much does the structure weigh? You need to guess within 10%. (100)

15. How many white struts are perpendicular to the ground? (100)

16. How many right angles occur between white struts that share a node? (200)

17. How many places can the yellow pieces fit into? (200)

18. How many octahedra can be built using only the nodes and struts in this structure? (200)

19. How many nodes can easily be rotated 360 degrees? (200)

20. What are all the solutions to the equation written on the bottom of the structure? (200)