



Math Olympiad and Problem Solving Programs  
E120 - Honors Algebra Problem Solving  
Problem Set 9.1 - Logic Reasoning

Name:

Date:

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1.

2.

3.

4.

5. The contestants are eliminated in the following order: 5, 10, 6, 2, 9, 8, 1, 4, 7. That leaves .

6.

7.

8.

9. Each round, every two people will play one match. One person is eliminated for each match played. The following table details the tournament:

Round	1	2	3	4	5	6
Players	64	32	16	8	4	2
Matches	32	16	8	4	2	1

Thus we have  $32 + 16 + 8 + 4 + 2 + 1 =$   matches.

10.