

1. This problem concerns a game called Frisbin. The object of the game is to throw three Frisbees at three bins that are on the ground about 20 feet away. If the Frisbee lands in the largest bin, 1 pt is scored. If the Frisbee lands in the medium sized bin, 5 pts are scored. If the Frisbee lands in the smallest bin, 10 pts are scored. If all three Frisbees land in bins, how many different total scores are possible?
2. Seven businessmen meet for lunch. When they all arrive at the restaurant each person shakes hands with all the others. How many total handshakes will there be?
3. In a tournament there are 16 teams. This is a single elimination tournament which means when a team loses they are out of the tournament. How many games are played to determine a tournament winner?

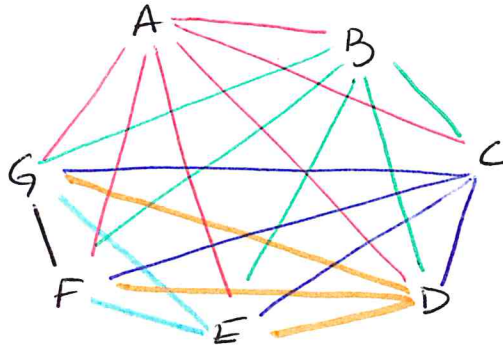
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①

10 possible different point to totals

L6 1pt	MED 5pts	Sm 10pts	TOTALPTS
3	0	0	3
2	1	0	7
2	0	1	12
1	2	0	11
1	1	1	16
1	0	2	21
0	3	0	15
0	2	1	20
0	1	2	25
0	0	3	30

②



AB AC AD AE AF AG	BC BD BE BF BG	CD CE CF CG	DE DF DG	EF EG	FG
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6 + 5 + 4 + 3 + 2 + 1

21 Handshakes

③

Rd 1  
16 Teams  
8 games  
(8 winners)

Rd 2  
8 Teams  
4 games  
(4 winners)

Rd 3  
4 Teams  
2 games  
(2 winners)

Rd 4  
2 Teams  
1 game  
(1 winner)

15 games