é	
6	The land it should be the following travers
9	The rotations of a case can be its ded into the following types: Retation about an axis between apposite corners (8 rotations, 2 orbits, 12 fixed) Retation about an axis between apposite edges (6 rotations, 3 orbits, 13 fixed)
6	Det the object on axis beto een anni Ha resigna (6 rotations, 3 orbits, k3 fixed)
i i	· Rotation about an exis between the centers of apposite faces
	-90° ptoton (6 rotations, 3 or bits, 63 fixed)
	-180° pathan (3 potations, 4 orbits, k & fred)
)	I was confused at first what you meant by "k^6 fixed" but now I see that you mean that there are k^6 colorings fixed by this element, whi is correct. Got it.
5	Thus from unweighted Pohya country we get 24 (16+3h4+12k3+8k2) colorings.
,	Good. 10/10
,	
,	
4	Weighted Polya country gives us 24 (t, 6+3+2+2+6+2+8+3)
,	=> 24 (41+42+43)6 +3(41+42+43)2(41+42+42)2+6(41+42+43)2(41+42+43)
	+6(42+42+43)3+8(43+43+43)2
	We want the coests of yingaya, so we can ignore (dyingaya) (youry mya)
)	and 8(y 3 ty 3 y 3) a. There are (2) ways to get y yoy 3 from
	(4, +4, +43) . 3. (3. 2) ways to get y, ya ya from (4) +ya+ya) (4) +yaya)
	and 6. (3.2) ways to get y yays from (y 24) y 3 y 3 y 500 2 6 Palot
	$\frac{1}{24}(90+18+36) = \frac{1}{24}(144) = \frac{1}{24$
	very good, though again could explain now you got the cycle index polynomial. 10/10
5	We can consider Moxm(h) to be a collection of h genstores
	(sected on by Sn) each with mordered colorable facets. Nice way of putting it.
	Unneighted Polya counting tells us # Mountle) = 1801 piess (#Y)
	ISA = n. #7, He number of colorings for each gens fore, is km. The
W	unsighed 5th ling numbers of the obst kind chij) count permitations
8 13 8	of So with i cycles so we can sum over /= i'm instead of over 1650.
	Thus we obtain the formula: /h! = chi) (km).
John W	Good, though you should write down what happens when we simplify us the generating function for the Stirling numbers from the hint (we just
	get a binomial coefficient, like you saw in your presentation). [-1pt]
	/h! mes (lm) c(g) = /h! = (h) / (h)) 9/10