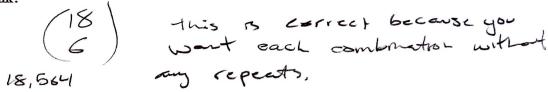
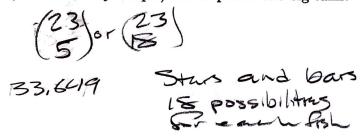
(2pts)	3.	Phil's Fresh	Fish	Friends	store s	sells	18	different	kids	of fish.	For	each	part	below,	include	the
		answer and a	. ver	v brief ex	colana	tion	of ·	why your	ansv	wer is co	orrec	t.				

(Hint: no two answers on this page will be the same.)

(a) How many different purchases can you make if you want 6 unique fish to put in one big tank?



(b) You decide you don't care if all of the fish are different. How many ways can you buy 6 (not necessarily unique) fish to put in one big tank?



(c) You remember you already have 6 fish bowls (all different sizes and shapes) at home already and don't need to buy a new tank. How many ways can you buy 6 unique fish and arrange them in the different tanks?

P(18,6) 110 is correct because we need current established from permutations

(d) You remember that you don't care if the fish are different anymore. How many ways can you purchase 6 fish, not necessarily unique, to put in the 6 very unique fish bowls?

186 For each of 6 Fish, there are 18 aphres