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*  this is a program to do poverty results

# delimit ;

capture drop all;

capture log close;

use "C:\MyDocuments\DATA\World Data\poverty and growth\povertygoals7_bis.dta",
clear;


drop if year==1985 & ccode == "CHI";

rename hcount headcoun;
replace gini=gini/100;
replace headcoun = headcoun/100;
gen sdlog = (2^(0.5))*invnorm((1+gini)/2);
gen loginc = log(gnppc);
gen loghead=log(headcoun);
gen logmean=log(meany)+log(12);
gen logpov=log(povline)+log(12);
gen logcon=log(consume);
enc region, gen(reg);

gen ind = (logpov-logmean+(0.5)*(sdlog^2))/sdlog;

gen elas = ( -(normden(ind))/(sdlog*norm(ind)));

egen elasreg=mean(elas), by(region);

gen alhalf=log(0.5)/(25*elasreg);
gen altot=log(0.5)/(elasreg);

log using "C:\MyDocuments\DATA\World Data\poverty and growth\jep.log", replace;

areg loghead loginc if povline<50, absorb(ccode) robust;
gen halfall = log(0.5)/(_b[loginc]*25);
gen totall = log(0.5)/(_b[loginc]);


areg loghead loginc sdlog if povline<50, absorb(ccode) robust;


areg loghead loginc sdlog if povline<50, absorb(ccode) robust;
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* now by region;

reg loghead loginc if reg ==1 & povline< 50;

gen halfeap = log(0.5)/(_b[loginc]*25);
gen toteap = log(0.5)/(_b[loginc]);

reg loghead loginc if reg ==2 & povline< 50;

gen halfeca = log(0.5)/(_b[loginc]*25);
gen toteca = log(0.5)/(_b[loginc]);

reg loghead loginc if reg ==3 & povline< 50;

gen halflac = log(0.5)/(_b[loginc]*25);
gen totlac = log(0.5)/(_b[loginc]);

reg loghead loginc if reg ==4 & povline< 50;

gen halfmena = log(0.5)/(_b[loginc]*25);
gen totmena = log(0.5)/(_b[loginc]);

reg loghead loginc if reg ==5 & povline< 50;

gen halfsa = log(0.5)/(_b[loginc]*25);
gen totsa = log(0.5)/(_b[loginc]);

reg loghead loginc if reg ==6 & povline< 50;

gen halfssa = log(0.5)/(_b[loginc]*25);
gen totssa = log(0.5)/(_b[loginc]);

sum tot* half*;

gen sdreg=.;
replace sdreg=0.11 if region=="eap";
replace sdreg=0.15 if region=="eca";
replace sdreg=0.16 if region=="lac";
replace sdreg=0.12 if region=="mena";
replace sdreg=0.06 if region=="sa";
replace sdreg=0.22 if region=="ssa";

egen mhead=mean(headc) if povline <50, by(region);

gen ineq = (2.80*sdreg);
gen ineqt = (2.80*0.24);
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```
sum ineqt;
tab region, sum(ineq);


log close;
```