0	Is it possible that wages went up from 1950 to 1960, but went down for both men and women? Assume that the proportion of men to women can change. (This is not a historical example.)	
	Yes	Maybe, but it is unclear

2	Can we write formalus for the variables in question?	
	Yes	Potentially, although the exact formulas maybe be subject to dispute

| 15 | Let r1 be the ratio of men:women in 1950. Let r2 be the ratio of men:women in 1960. Let n1 be the population in 1950 and n2 be the population in 1960.

Let m1,w1 be the wages for men,women in 1950. Let m2,w2 be the wages for men, women in 1960.

Is r1 * n1 * m1 + n1/r1 * w1 the average wages in 1950? | |
|---|---|---|
| | No | Possibly |

| 22 | Counterexample:
r1 = 1
n1 = 2
m1 = 2
w1 = 1
What answer does the formula give for the average wages in 1950? | |
|---|---|---|
| | 6 | 6, maybe? |

| 34 | r1 * n1 * m1 = 4
n1 / r1 * w1 = 2
The formula gives the answer | |
|---|---|---|
| | 6 | 6? |