



General.

Washburn - Howell

**N35**

✓ 47/45 35-40000 years ago Homo sapiens spread in all world within a span of 20000 more change than in preceding 500000 - culture or specific biology. S.E. Asia & Europe enhanced hunting capabilities → populate Australia from Asia → America. Art!

✓ 45 (a) Pleistocene sequence:

1. australo stage.

2. early homo - wide bipolar tradition - slow cultural change

3. homo sapiens with rapid technological change.

austral. may have been ancestral to early ancient human forms - some of the latter may have replaced late australo.

✓ 46. australop. = plains-living bipedal hominids.

✓ 48. Middle Pleistocene - excellent stone tools implements that <sup>men</sup> use of fire - fire (and used) wooden spears, and killed some large animals.

✓ 49a Brain development makes human life as is known possible. (austral. small brain!)

✓ 49b tool-using, hunting created the large brain rather than vice versa. (the authors believe!)

✓ 50a Brain size developed h. sapiens - chimpanzee.

✓ 50b cranial capacity developed subsequent to tool use, but existed in early pleistocene. - no evidence

✓ 50c that austral. had larger brain (difference doubtful if any.)

✓ 51a human brain pattern like chimp.

✓ 51b sparse population world of ancient hunters.

✓ 51c brain development result of technical social life.