

Name _____ SN. _____

SKULL COMPARISONS

Date _____ Per. _____

All measurements are to be in millimeters (mm)

FEATURES TO OBSERVE	A	B	C	D	E	F	G	H
1. Max <u>Width</u> of braincase								
2. Max <u>Length</u> of braincase								
3. <u>Post-Orbital Constriction</u> (cranial <u>width</u> behind eye orbits)								
4. Is there a <u>Sagittal Crest</u> ? (bony ridge on top of cranium)								
5. shape of <u>Forehead</u> (forehead) (more vertical, or slopes back?)								
6. <u>Location of Foramen Magnum</u> (underneath, or towards rear?)								
7. supraorbital <u>Browridge</u> present? (Y/N)								
8. compar. size/shape of browridge, if present (large/small?)								
9. <u>Facial Prognathism</u> (meas. from plane of eye orbits to plane of front teeth)								
10. shape of <u>Chin</u> (sticks out, or slopes back?)								
11. shape of <u>Dental Arcade</u> : (straight-sided, or parabolic?)								
12. <u>Dental Formula</u> : # of incisors-canine- premolars-molars in half of one jaw								
13. <u>Angle of Incisors</u> : (slanted out, or vertical?)								
14. <u>Canine Diastema</u> (gap between upper incisors and canines)								
15. <u>Length</u> of exposed <u>upper Canine</u> tooth								

A. _____

D. _____

G. _____

B. _____

E. _____

H. _____

C. _____

F. _____

SKULLS USED

- A. Gorilla gorilla (gorilla)
- B. Pan troglodytes (chimpanzee)
- C. Homo sapiens sapiens (modern human)
- D. Homo sapiens sapiens (Cro-Magnon man)
- E. Homo sapiens neanderthalensis (Neanderthal man)
- F. Homo erectus (Peking man, Java man)
- G. Australopithecus boisei (robust early human)
- H. Australopithecus africanus (gracile early human)

Name _____ SN. _____ **SKULL COMPARISONS** **SAMPLE OF POSSIBLE ANSWERS**

All measurements are to be in millimeters (mm)

FEATURES TO OBSERVE	A(Gor.)	B(Chim)	C(Mod)	D(Cro)	E(Nea)	F(H.er)	G(A.bo)	H(A.af)
1. Max <u>Width</u> of braincase	117	117	135	156				108
2. Max <u>Length</u> of braincase	130	130	170	180				148
3. <u>Post-Orbital Constriction</u> (cranial <u>width</u> behind eye orbits)	65	65	90	107				78
4. Is there a <u>Sagittal Crest</u> ? (boney ridge on top of cranium)	Y	n	N	n				n
5. shape of <u>Forehead</u> (forehead) (more vertical, or slopes back?)	sl oped	sl oped	ver t .	ver t .				sl oped
6. <u>Location of Foramen Magnum</u> (underneath, or towards rear?)	to rear	to rear	under	under				under
7. supraorbital <u>Browridge</u> present? (Y/N)	y	y	(n)	y/n				y
8. compar. size/shape of browridge, if present (large/small?)	l ar ge	l ar ge	smal l	med/ smal l				smal l
9. <u>Facial Prognathism</u> (meas. from plane of eye orbits to plane of front teeth)	85	75	25	20				40
10. shape of <u>Chin</u> (sticks out, or slopes back?)	sl opes	sl opes	out	out				ver t/ r nded
11. shape of <u>Dental Arcade</u> : (straight-sided, or parabolic?)	str .	str	par a	par a				str ./ par a
12. <u>Dental Formula</u> : # of incisors-canine- premolars-molars in half of one jaw	2123	2123	2123	2123				2123
13. <u>Angle of Incisors</u> : (slanted out, or vertical?)	sl ant s	sl ant s	ver t	ver t				sl ant s
14. <u>Canine Diastema</u> (gap between upper incisors and canines)	y	y	n	n				n
15. <u>Length</u> of exposed <u>upper Canine</u> tooth	18	25	11	15				10

A. Gorilla (ape)_____

D. Cro-Magnon (H.s.s.)

G. Australopithecus boisei

B. Chimpanzee (ape)_____

E. Neanderthal (H.s.n.)

H. A. africanus

C. Modern Human (H.sapiens)

F. Homo erectus (Java/Peking)