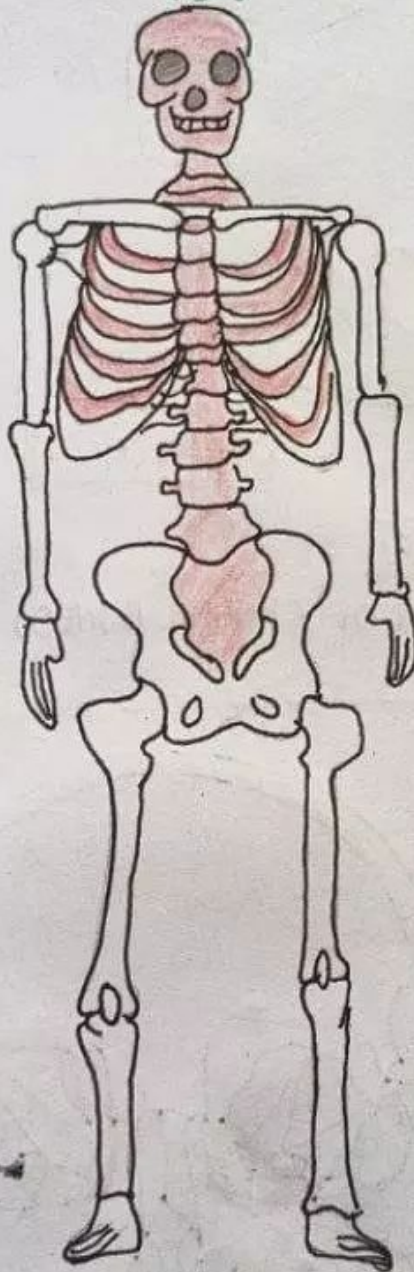
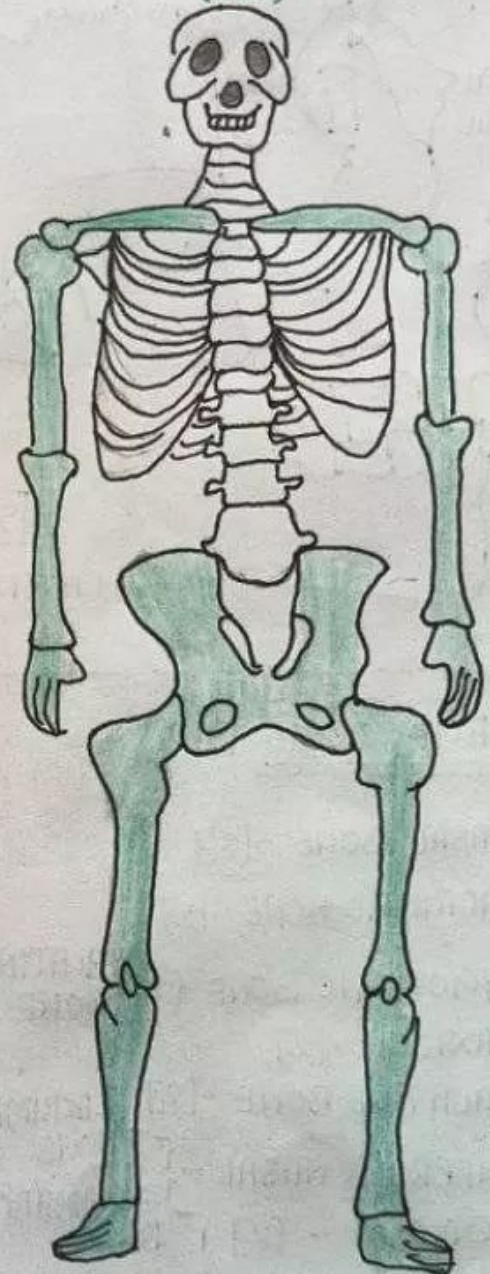


ADULT - 206 BONES

AXIAL SKELETAL
(80)

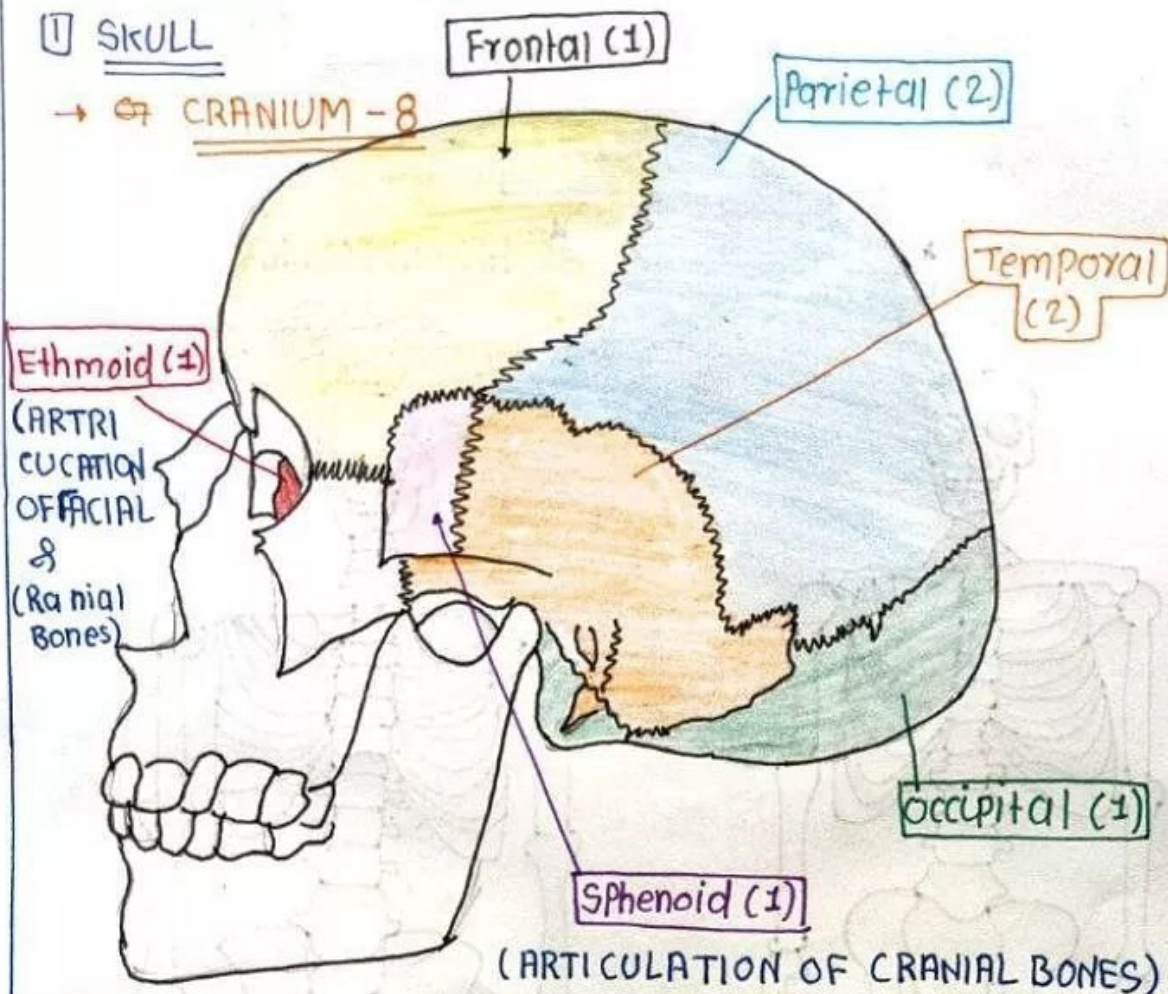


APPENDICULAR
SKELETAL
(126)



1) SKULL

→ CRANIUM - 8



- FRONTAL - [1]
- PARIETAL - [2]
- TEMPORAL - [2]
- OCCIPITAL - [1]
- SPHENOID - [1]
- ETHMOID - [1]

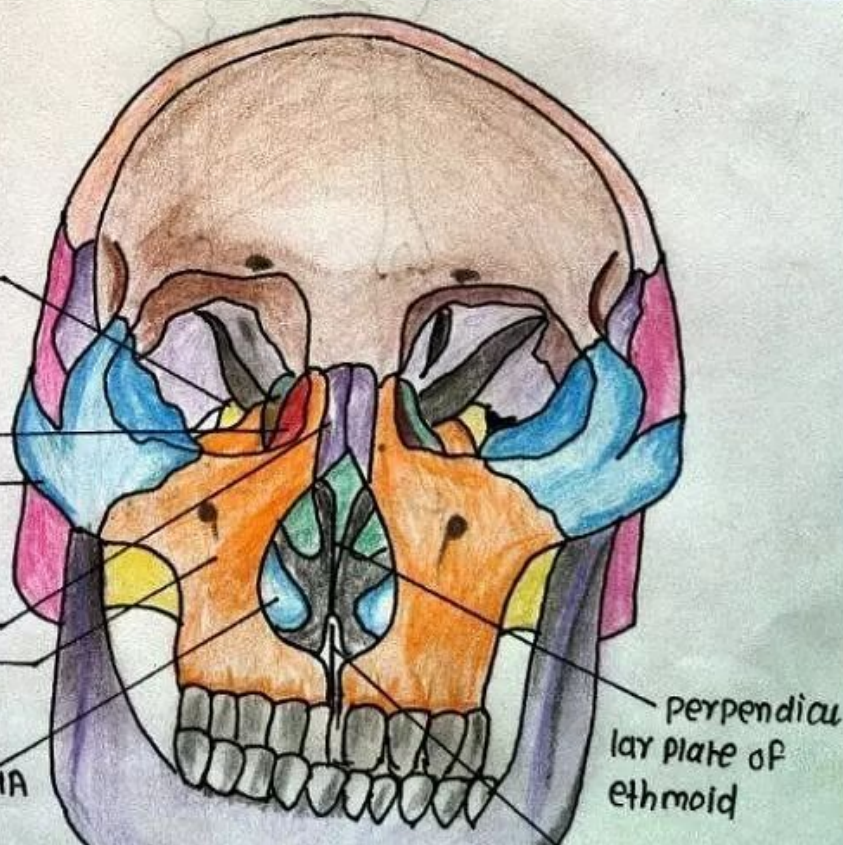
FACIAL BONE [14]

- NASAL BONE - [2]
- LACRIMAL BONE - [2]
- ZYGOMATIC BONE - [2]
- MAXILLA - [2]
- PALATINE BONE - [2]
- INFERIOR NASAL CONCHA - [2]
- MANDIBLE - [1]
- VOMER - [1]

PALATINE BONE
LACRIMAL BONE
ZYGOMATIC BONE
NASAL BONE
MAXILLA

INFERIOR NASAL CONCHA

TOTAL BONE IN SKULL
CRANIUM + FACIAL
[8] + [14] = 22



EAR OSSICLES 3+3=6

Malleus : Hammer

Incus : Anvil

Stapes : Stirrup



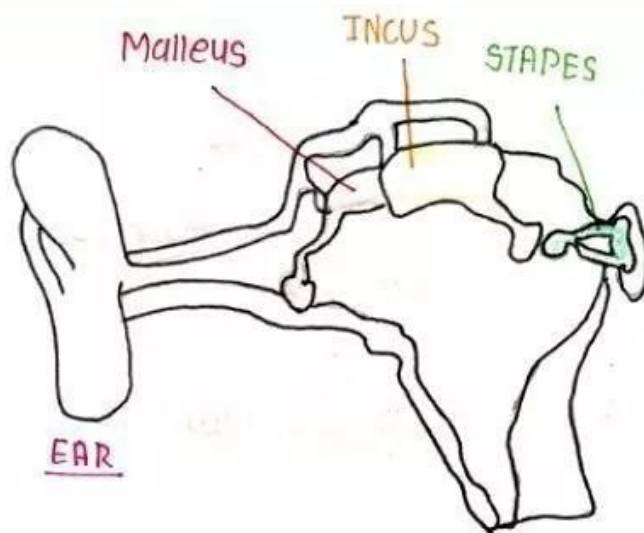
Smallest Bone

HYOID - TONGUE BONE



It is NOT ATTACHED TO ANY BONE OF THE BODY

HUMAN SKULL
IS DICONDYLIC



RIBS

→ 12 PAIRS OF RIBS = 24 RIBS

→ 7 TRUE RIBS - PICHE - VERTEBRAL COLUMN

→ 3 FALSE RIBS - AGE - STERNUM

→ 2 FLOATING RIBS - PICHE - VERTEBRAL COLUMN
AGE - LAST RIB



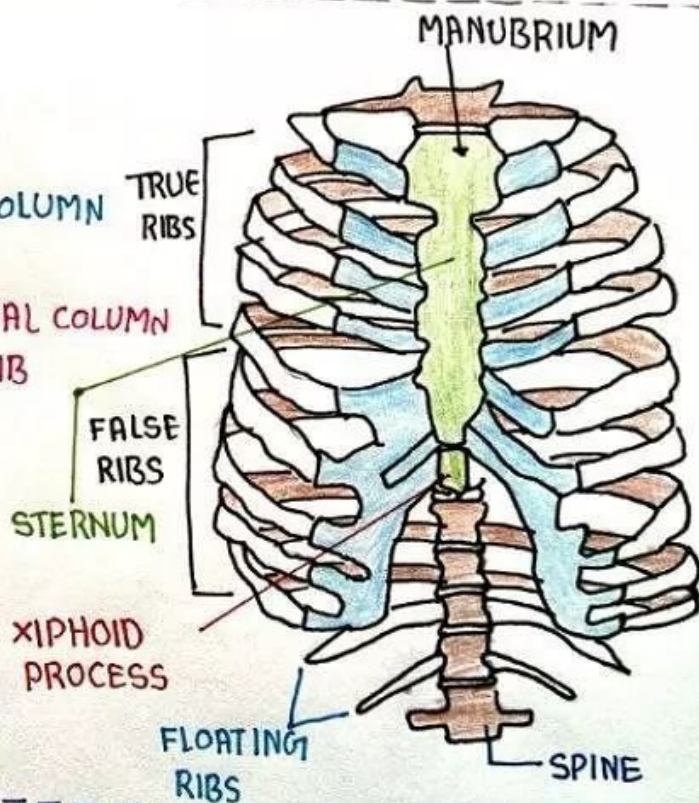
SIRF PICHE SE

JUDA HAI - VERTEBRAL COLUMN SE

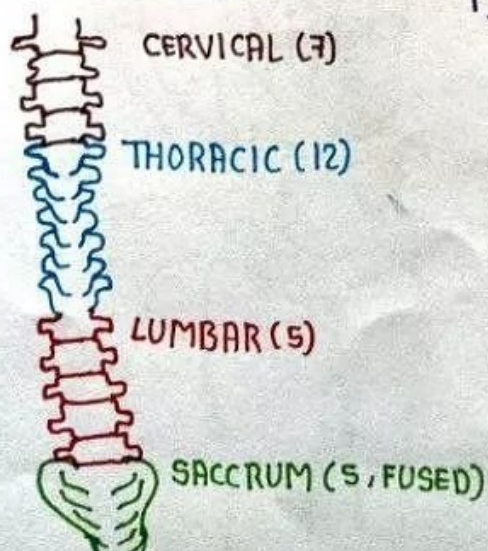
STERNUM - 1

HEAD (MANUBRIUM)

BODY (XIPHOID PROCESS)



VERTEBRAL COLUMN



VERTEBRAL COLUMN [26]

CERVICAL - 7

THORACIC - 12

LUMBAR - 5 → LARGEST VERTEBRAL COLUMN BONE

SACRUM - (5) - 1

COCCYX - (4) - 1

C1 - ATLAS - OCCIPITAL CONDYLE

C2 - AXIS

APPENDICULAR SKELETON

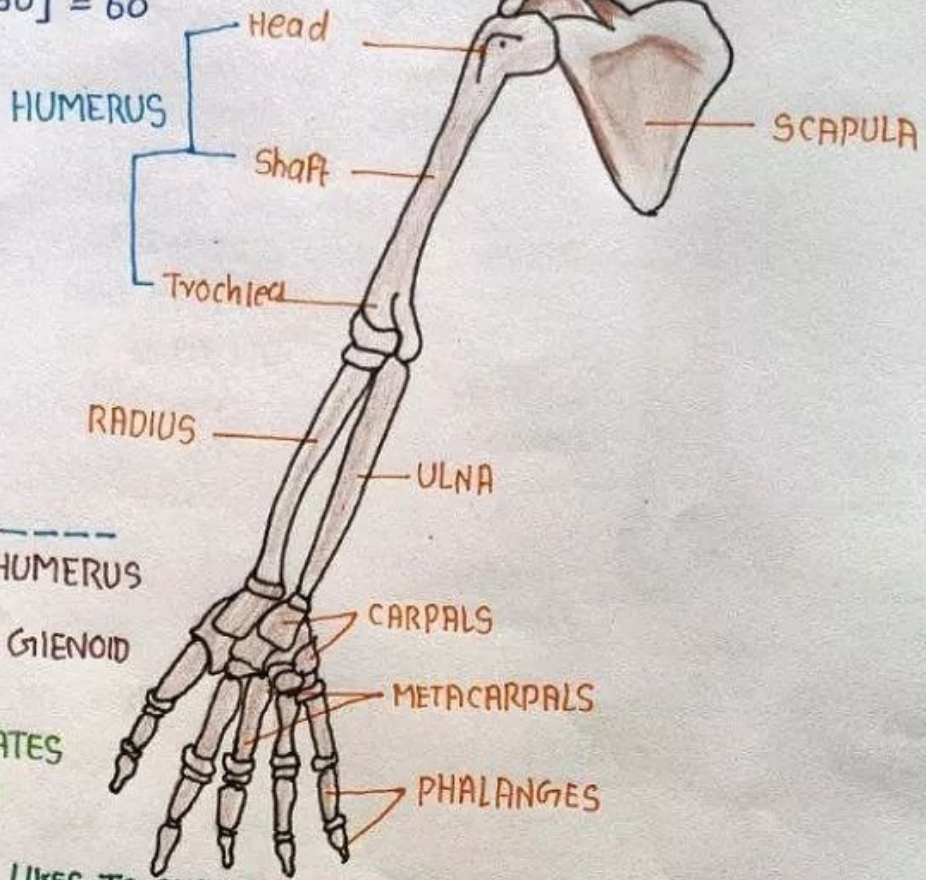
(126)

Left + Right
FORELIMBS [30 + 30] = 60

- HUMERUS - 1
- RADIUS - 1
- ULNA - 1
- CARPALS - 8
- METACARPALS - 5
- PHALANGES - 14

DIGIT FORMULA

2, 3, 3, 3



HUMERUS:- HEAD OF THE HUMERUS

ARTICULATES WITH THE GLENOID CAVITY OF SCAPULA

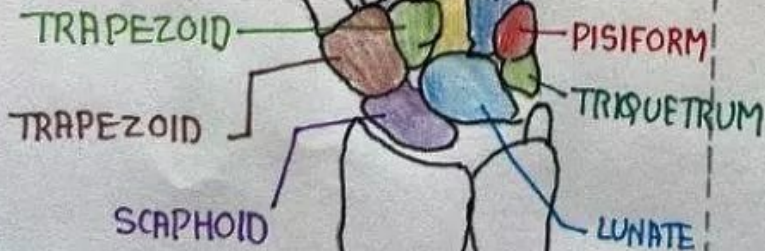
→ LOWER END ARTICULATES WITH RADIUS & ULNA

RADIUS & ULNA

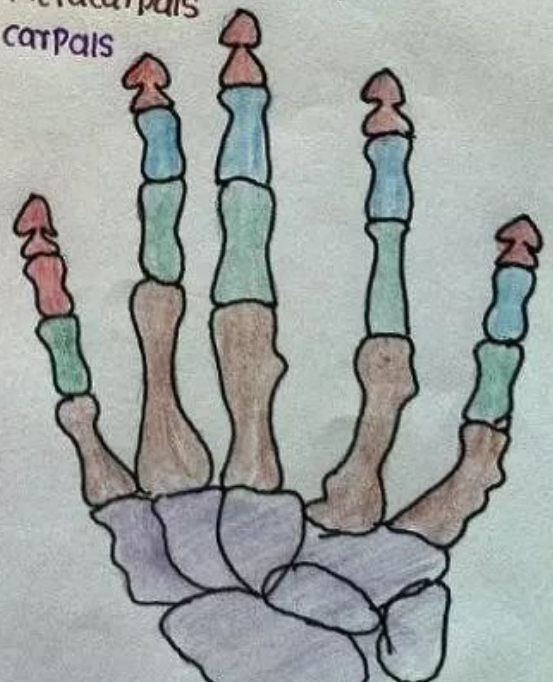
SALLY LIKES TO PUSH THE TOY CART HARD

CARPALS

- SCAPHOID
- TRAPEZIUM
- LUNATE
- TRAPEZOID
- TRIQUETRUM
- CAPITATE
- PISIFORM
- HAMATE



- - Distal phalanges
- - Intermediate phalanges
- - Proximal phalanges
- - Metacarpals
- - Carpals

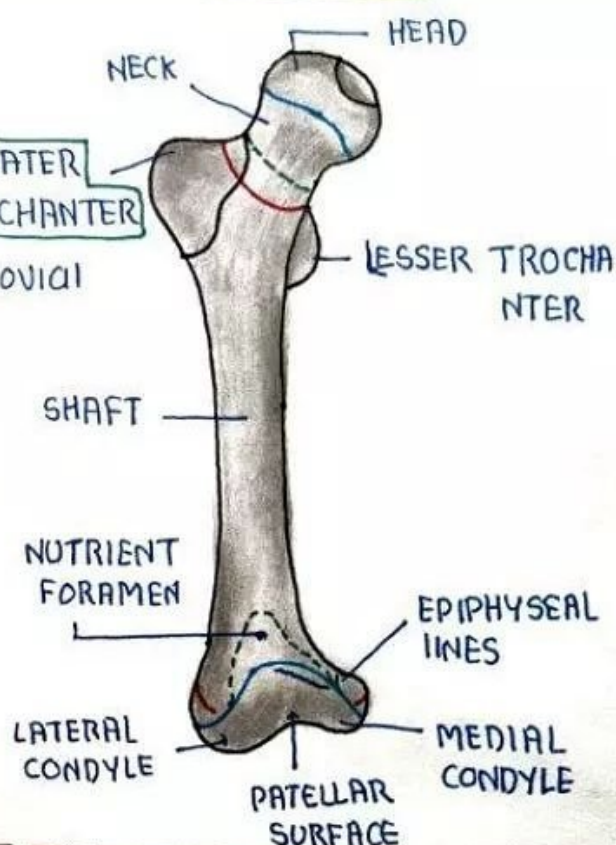


- ① FEMUR - 1
 - ② TIBIA - 1
 - ③ FIBULA - 1
 - ④ PATELLA - 1
 - ⑤ TARSALS - 7
 - ⑥ METATARSALS - 5
 - ⑦ PHALANGES - 14
- 30

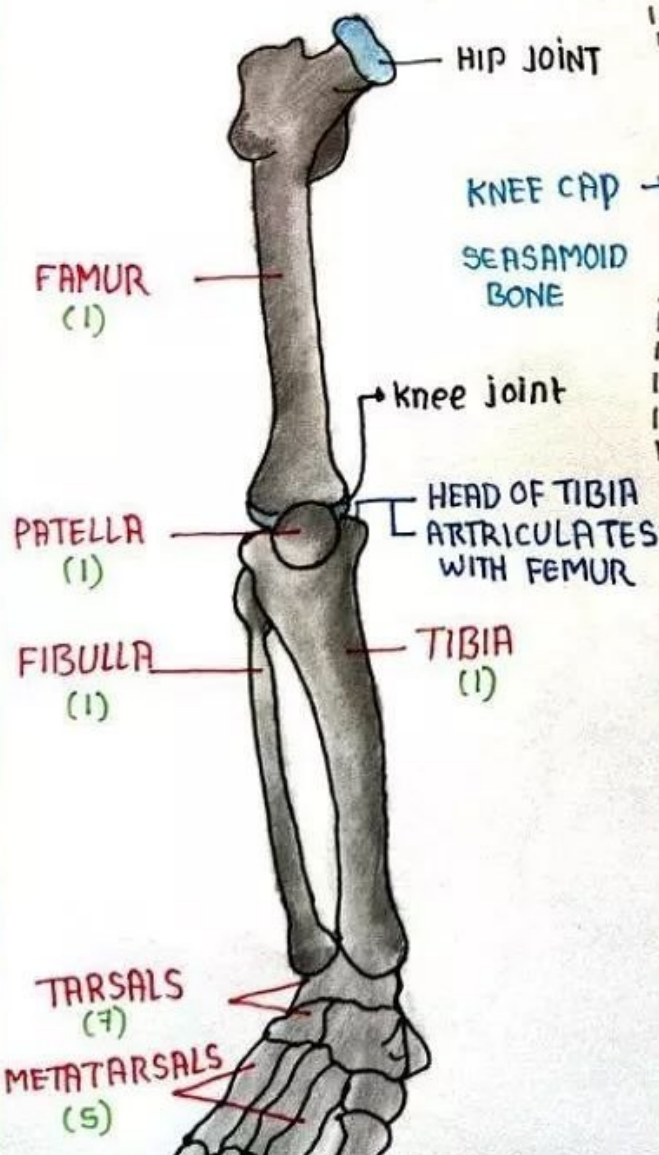
PATELLA IS A
SESSAMOID BONE

— line of attachment of border of synovial membrane
 --- line of reflection of synovial mem.
 — line of attachment of fibrous capsule.

GREATER TROCHANTER



HINDLIMB



TARSALS

7 TARSALS

PROXIMAL ROW

TALUS :- ARTICULATES WITH TIBIA AND FIBULA

NAVICULAR

CALCANEUM :- Largest Tarsal Bone

DISTAL ROW

- ① CONEIFORM
- ② CONEIFORM
- ③ CONEIFORM
- ④ CUBOIDAL

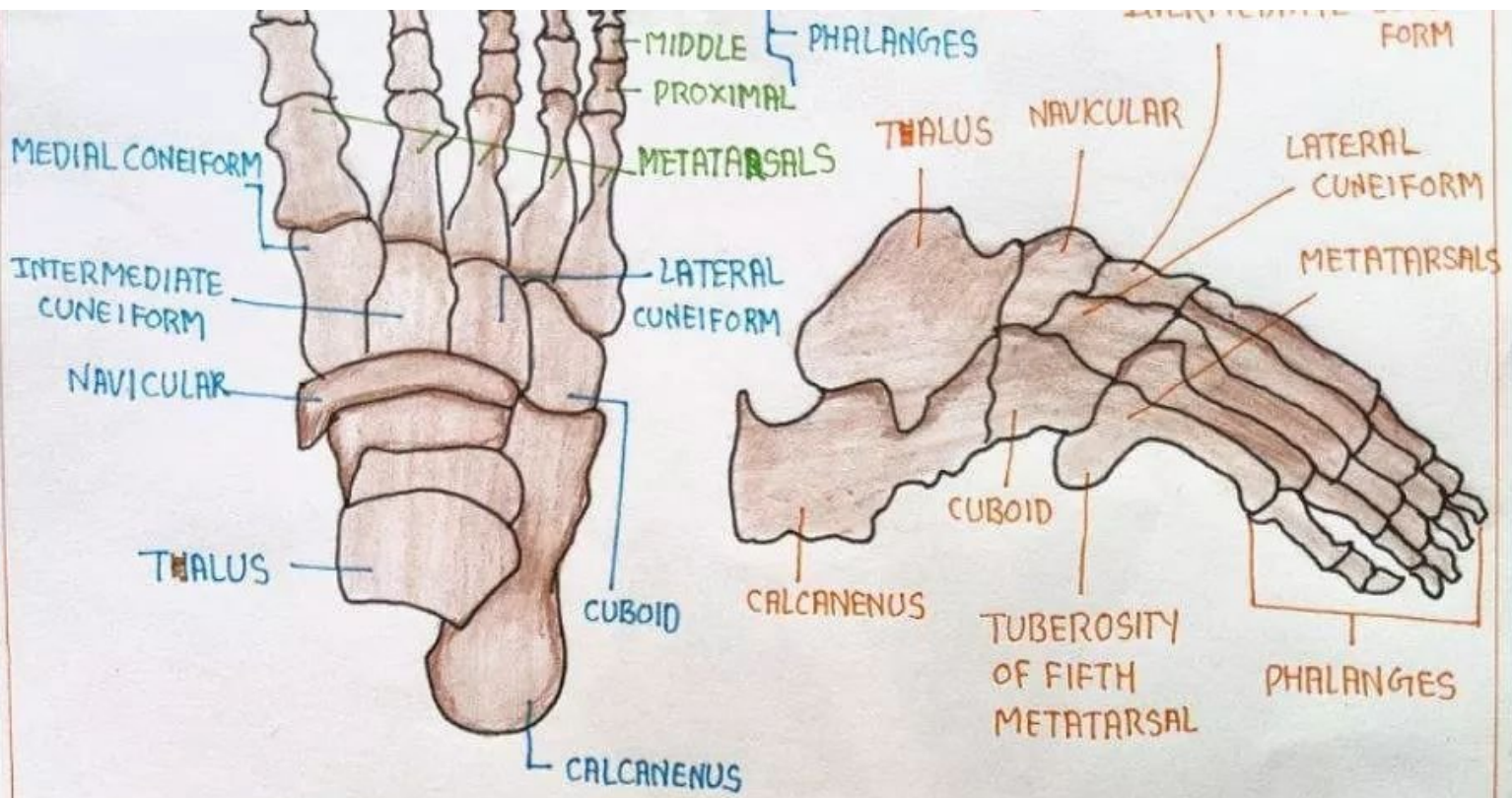
METATARSal - [5]

JOINED BY CUNIFORM & CUBOIDAL BONE

PHALANGES - [14]

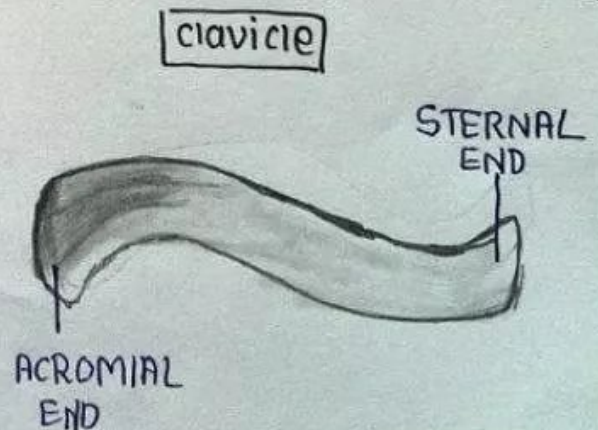
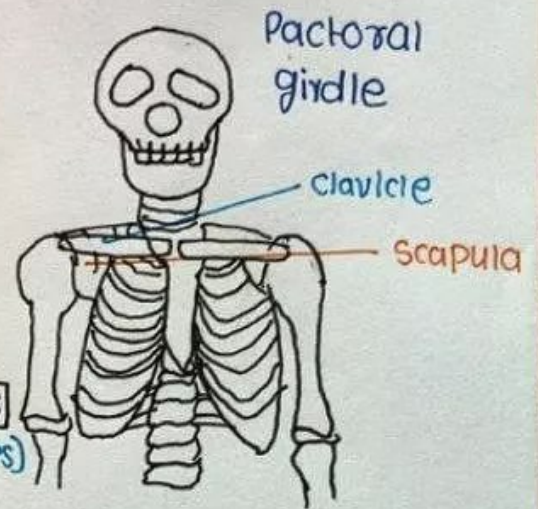
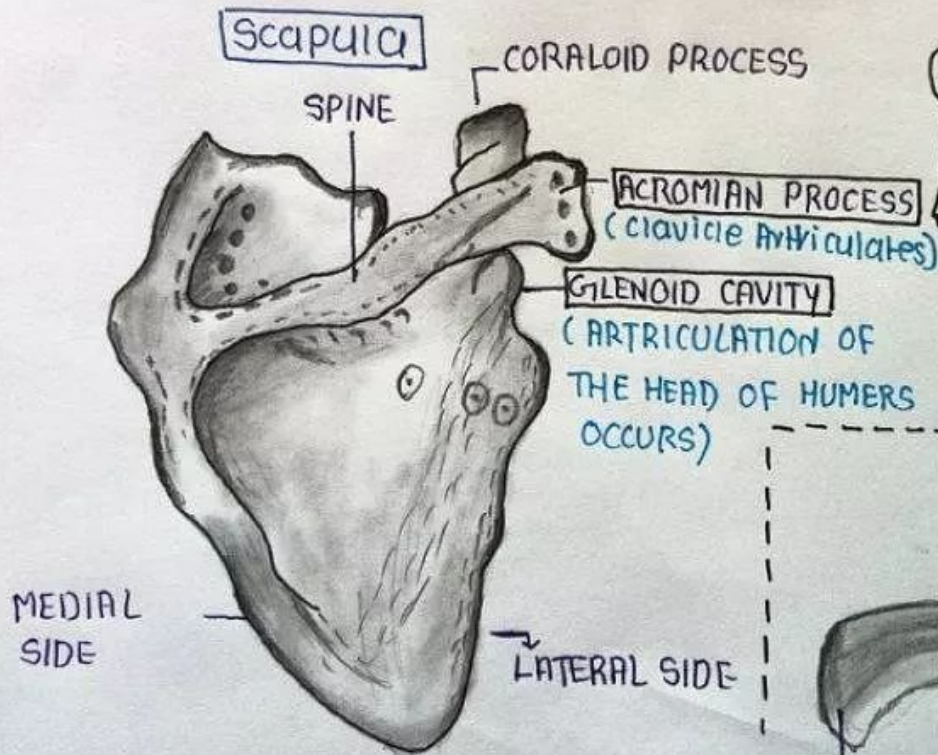
DIGIT FORMULA

2, 3, 3, 3

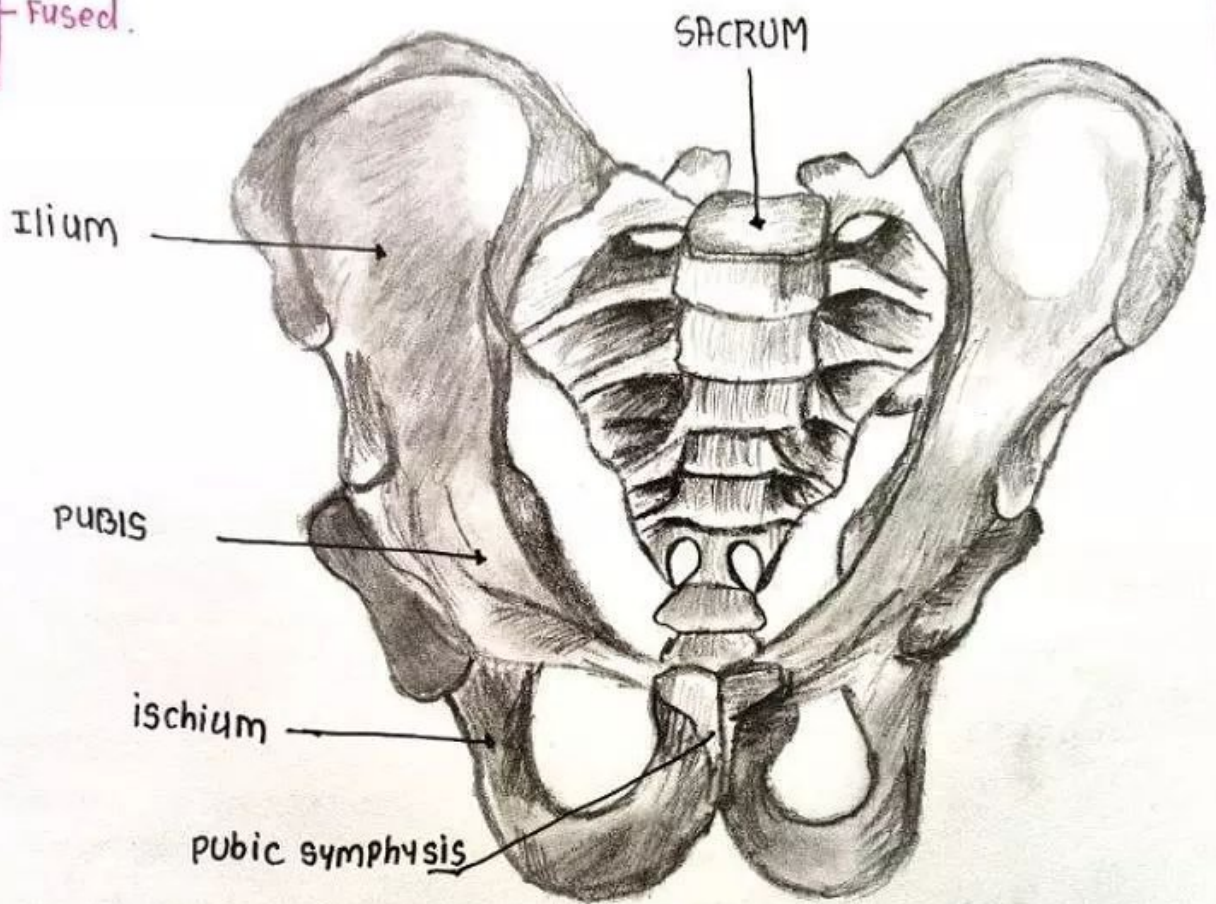


GIRDLES

I Pectoral Girdle [2+2]
clavicle + scapula



ilium
ischium
pubis } Fused.



PECTORAL GIRDLE

↳ GLENOID CAVITY
(HEAD OF HUMERUS
ARTICULATES)

PELVIC GIRDLE

↳ ~~Acetabulum~~ Acitabulum
Head of femur articulates

APPENDICULAR SYSTEM

FORELIMBS - 60

HINDLIMB - 60

PECTORAL GIRDLE - 4

PELVIC GIRDLE - 2

JOINT

- 1] FIBROUS JOINT
- 2] CARTILAGENOUS JOINT
- 3] SYNOVIAL JOINT

FIBROUS JOINT

(IMMOVABLE JOINT)

- EG: 1] SUTURE :- B/W CRANIAL AND FACIAL BONES
- 2] GOMPHOSIS :- B/W TEETH AND GUMS

CARTILAGENOUS JOINT

- Slightly movable joint
- B/W → ADJACENT VERTEBRAE
- B/W → STERNUM AND RIBS

SYNOVIAL JOINT (MOVABLE JOINT)

- B/W HUMERS AND PECTORAL GIRDLE
- FEMUR AND PELVIC GIRDLE
- SYNOVIAL FLUID

2] HINGE JOINT

- KNEE & ELBOW JOINT

3] PIVOT JOINT

- B/W C₁ AND C₂
- RADIO ULNAR JOINT

4] GLIDING JOINT

- B/W CARPALS AND TARSALS

5] SADDLE JOINT

BONE DISORDERS

1] ARTHRITIS :- IMMFLAMMATION IN JOINTS

A] RHEUMATOID ARTHRITIS

PANNUS FORMATION ALON THE SYNOVIAL MEMBRANE

B] OSTEOARTHRITIS

DENERATIVE DISEASE

- FRICTION & WEAR / TEAR B/W ARTICULATED BONES

2] OSTEOPOROSIS

- Ca²⁺ ↓
- BONES - SOFT
- WOMEN ABOVE 45 YEARS OF AGE AFTER MENOPAUSE
- * CHANCES OF FRACTURE INCREASE

3] GOUTY ARTHRITIS

- CAUSE DUE TO ACCUMULATION OF URIC ACID IN JOINTS