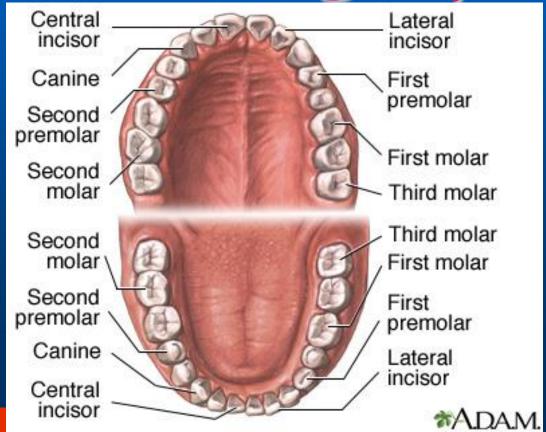




Tooth classification & numbering systems

Dr. Reda Gaber
Associate Professor of Oral Biology
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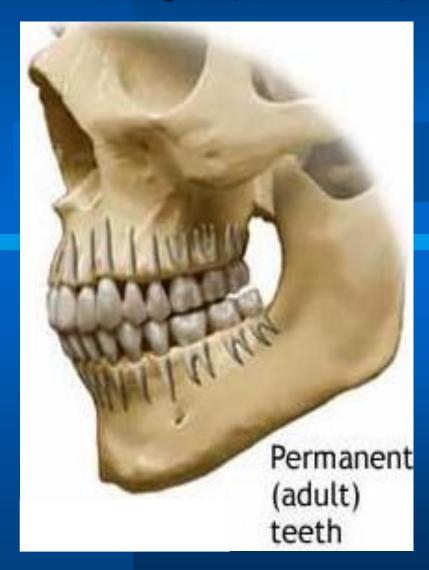
Tooth classification & numbering systems

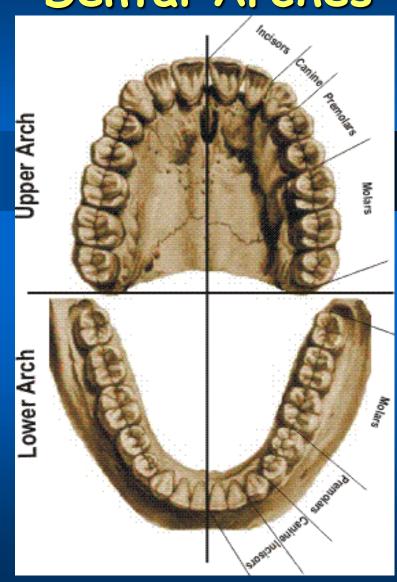


The Jaws



Dental Arches

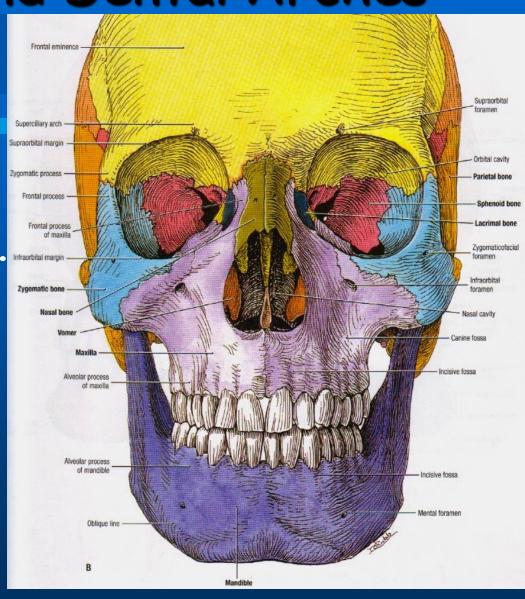




The Jaws and Dental Arches

• A. The maxilla is two bones forming the upper jaw; they are rigidly attached to the skull.

• B. The mandible is a horse-shoe shaped bone which articulates with the skull by way of the temporo-mandibular joint the TMJ.

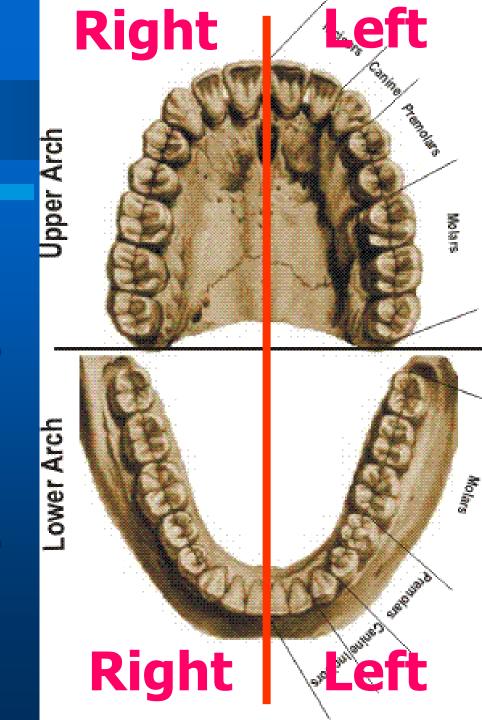


Quadrants: right & left quadrants

Maxillary right and left.

Mandibular right and left.

4 Quadrants



Types of Teeth

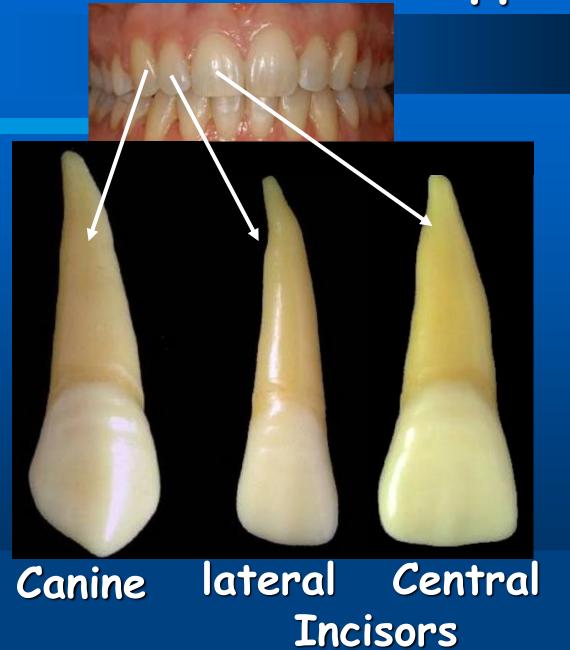


Anterior Teeth for cutting & tearing food

Posterior Teeth
Tearing & grinding
food



Anterior Teeth - Upper



Anterior Teeth - Lower



Premolars:

(in permanent only)



First premolar &
Second premolar





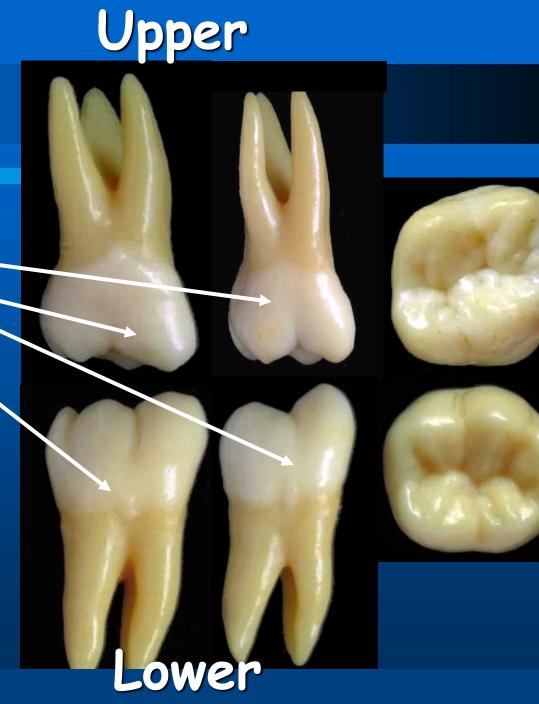


Molars:



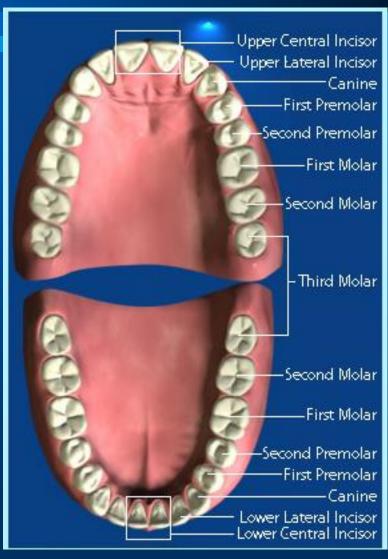
First & second

Wisdom tooth =
Third permanent molar



Types of Dentitions: Primary & Permanent Dentition



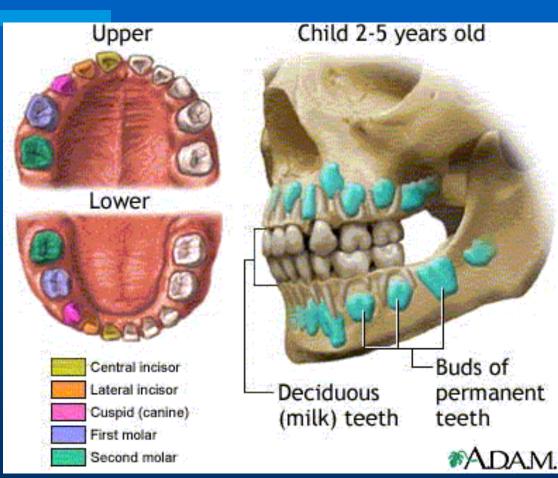


Types of Dentitions: I-Primary Dentition

Deciduous ,baby, milk teeth:

- a. Twenty (20) primary teeth.
- b. 10 in each arch
- c. 5 in each quadrant

In function:
2 years ⇒ 12 years



I-Primary Dentition







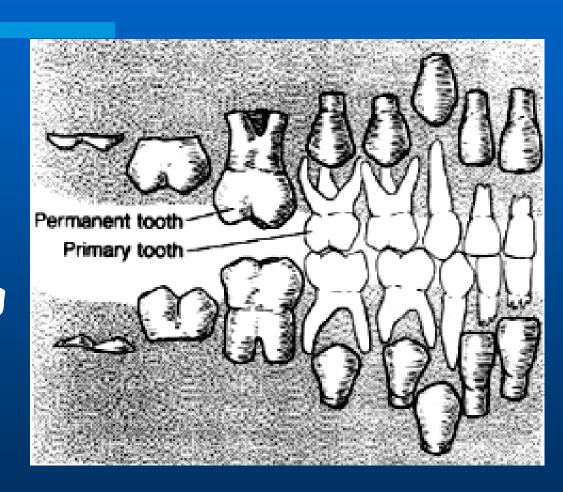
Mixed Dentition Period

6 years → 12 years

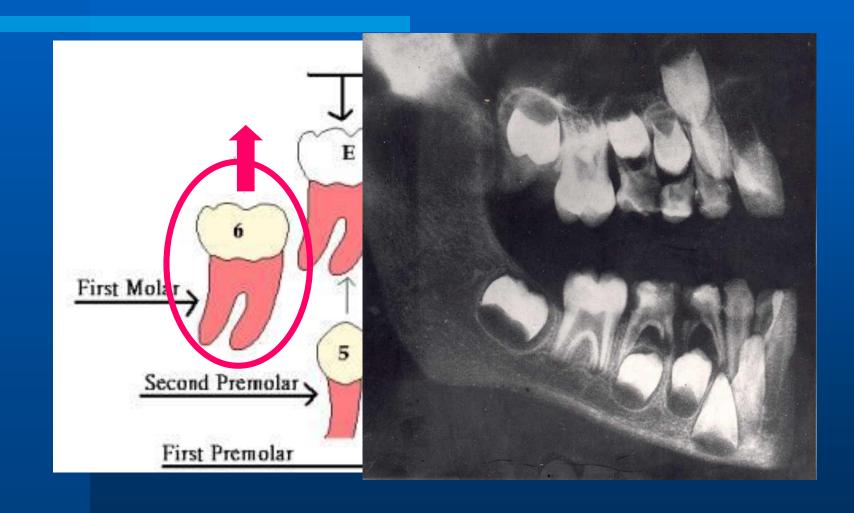
↓ ↓

Eruption
of
first
permanent
molar

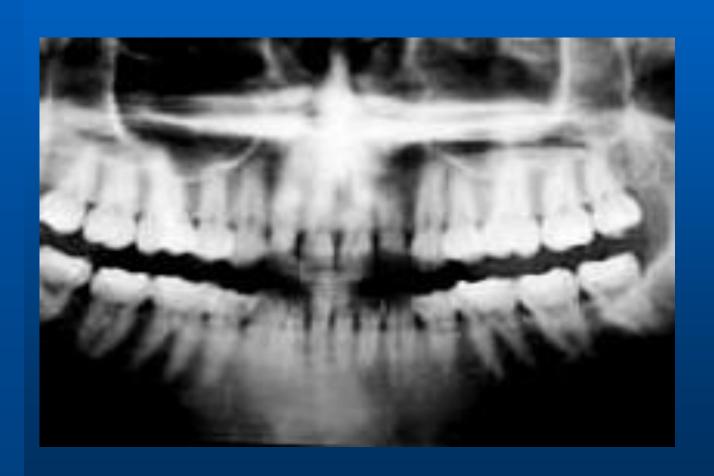
Shedding of last primary molar



6 years - eruption of first permanent molar



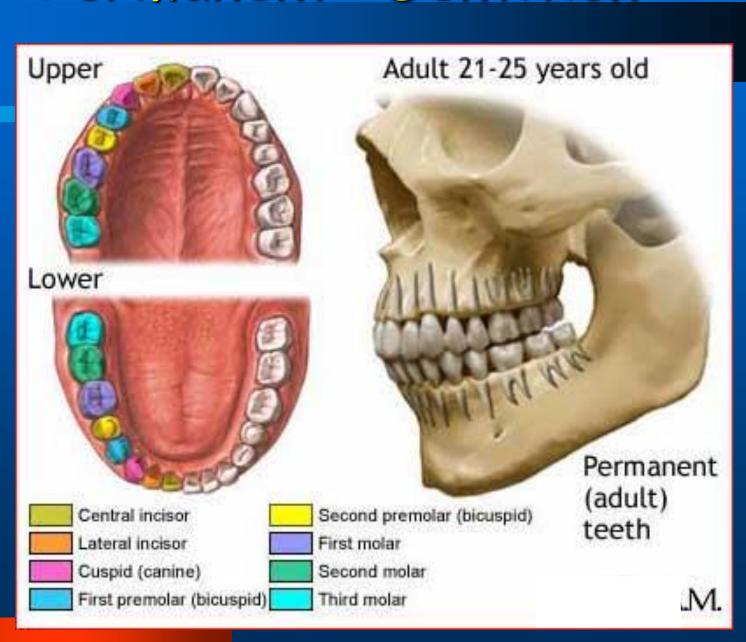
12 years > Shedding of last primary molar



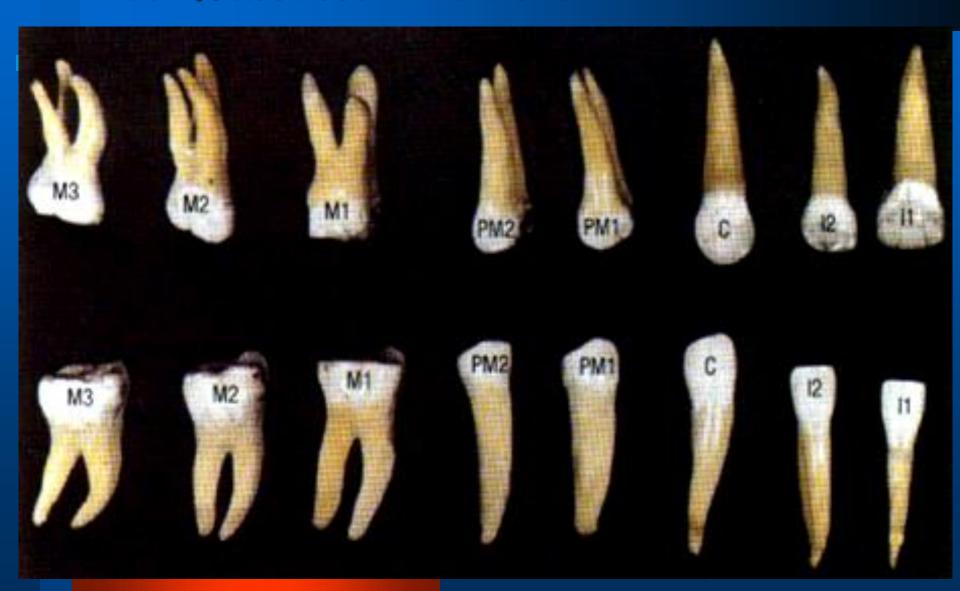
II-Permanent Dentition

In function: 12 years

through out life



Permanent Teeth



The Dentitions

Humans have two dentitions

1-The primary dentition: (deciduous)

20 teeth. 10 maxillary and 10 mandibular.

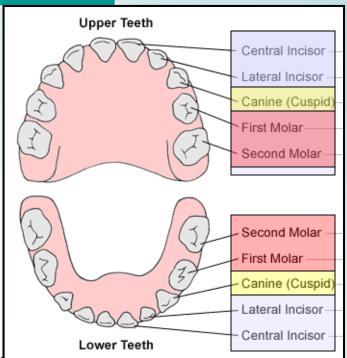
5 teeth are present in each quadrant.

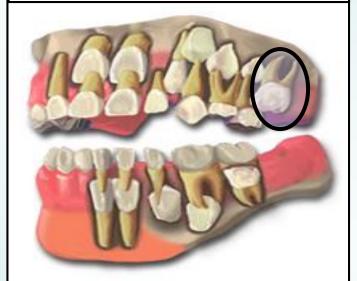
2 incisors.

1 canine.

and 2 molars.

The dental formula is:





The Dentitions

2-The permanent dentition:

(secondary, adult or succedaneous)

32 teeth, 16 maxillary and 16 mandibular.

8 teeth in each quadrant are Present.

2 incisors.

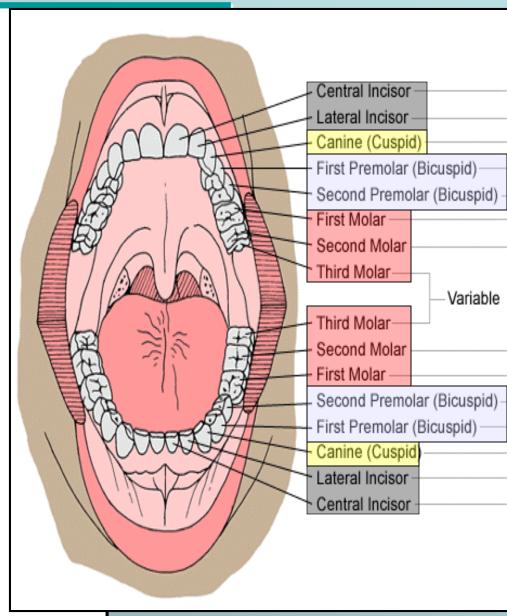
1 canine.

2 premolars.

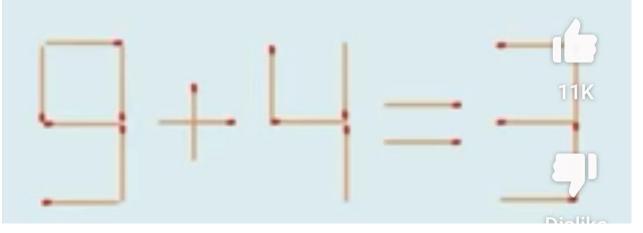
and 3 molars.

The dental formula is:

The *permanent molars* are not preceded with deciduous teeth so they may be termed as *non-succedaneous teeth*.



لغز معقد جدا صحح هذه المعادلة بتحريك عود ثقاب واحد فقط؟

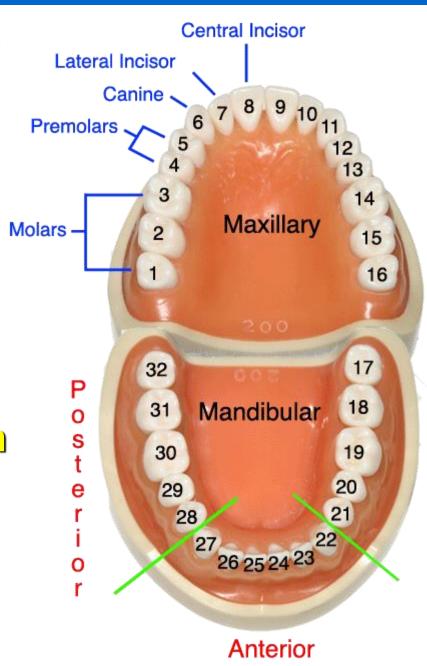


Tooth Identification Systems

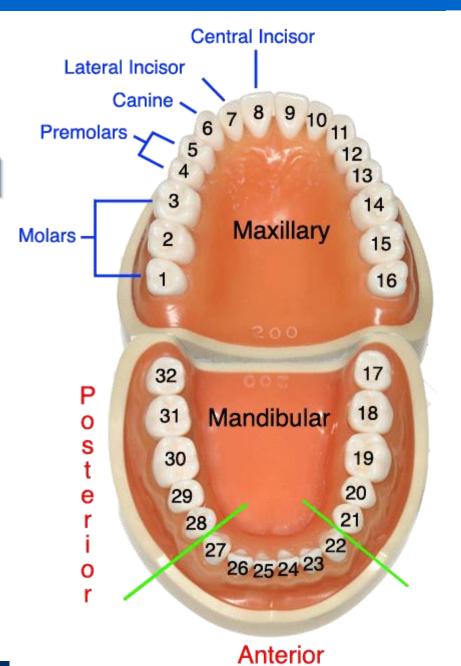
Numbering or Coding Systems

1.Universal System 2.Palmer Notation System

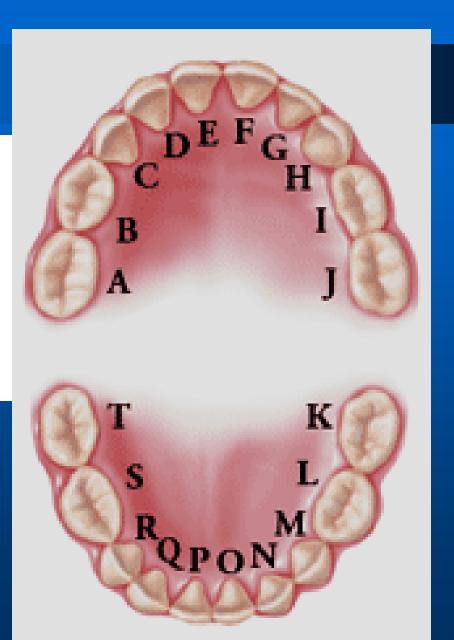
3.International FDI System (two digit system)



1- Universal system for Permanent Teeth



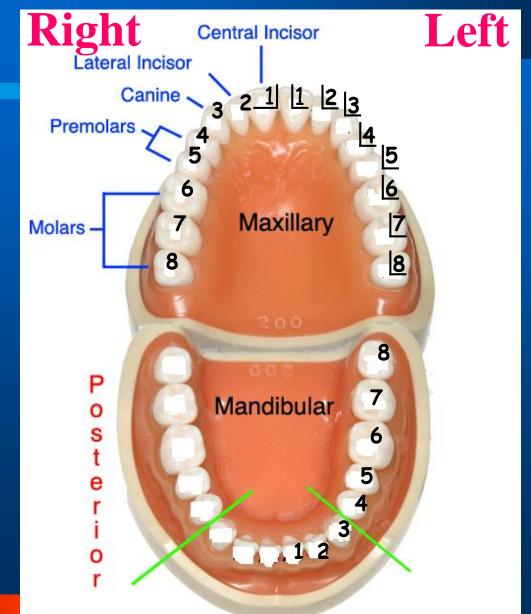
Universal System for Primary Teeth



2-Palmer Notation System for Permanent Teeth

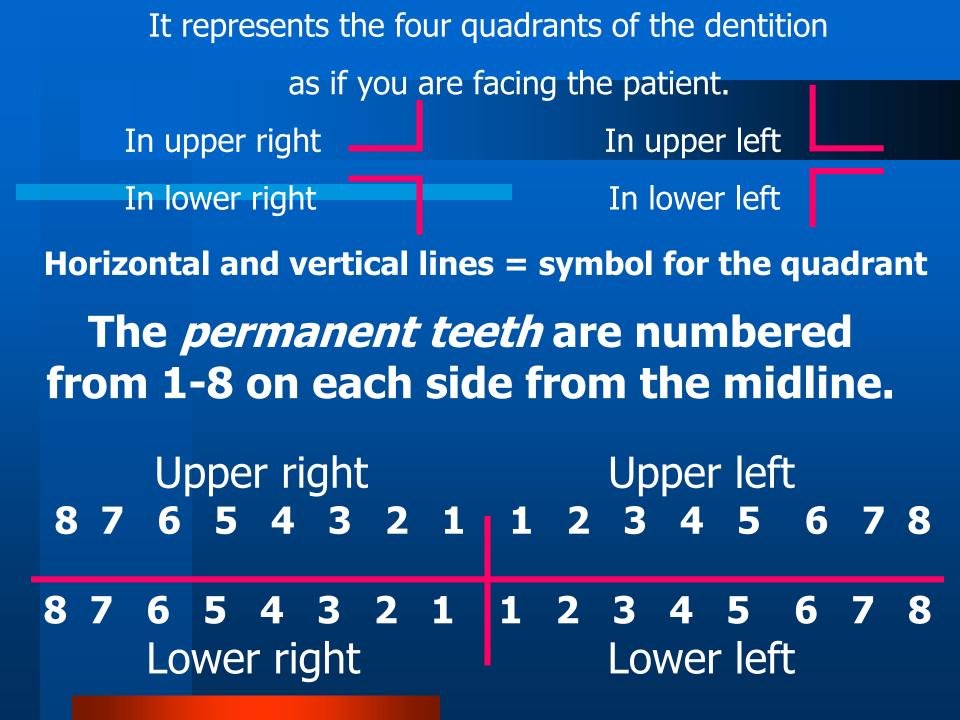


8 - 1





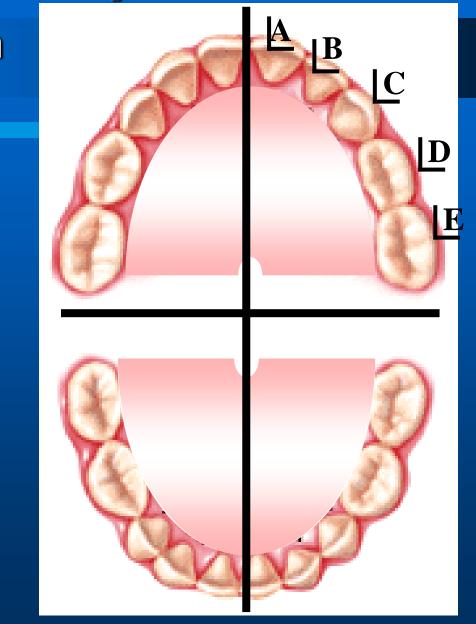




Palmer Notation System

for Primary Teeth

E-A







The deciduous teeth are lettered from A-E on each side from the midline

Upper right

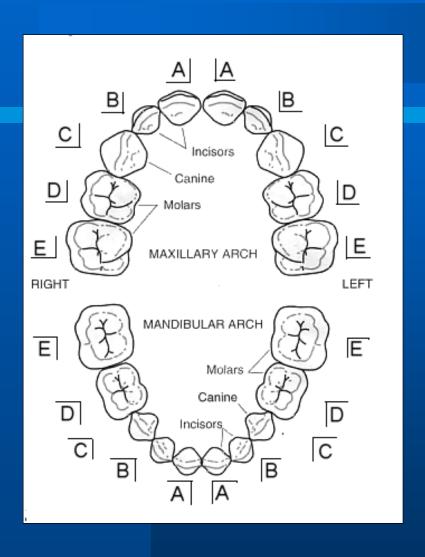
E D C B A A B C D E

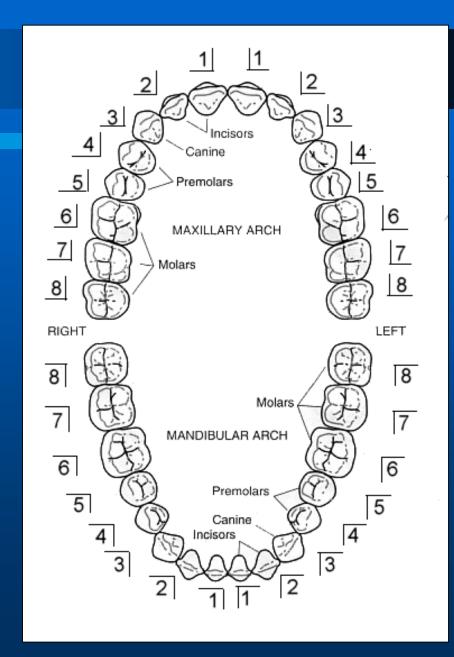
E D C B A A B C D E

Lower right

Lower left

Palmer Notation System

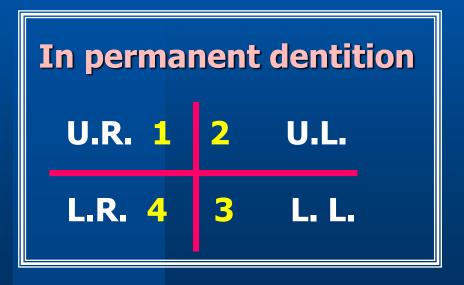


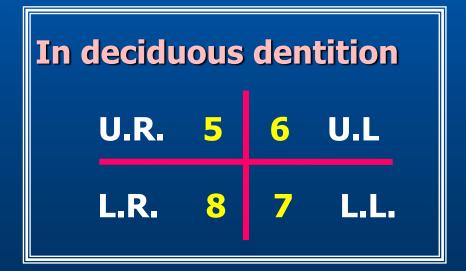


2-The International Numbering System "FDI" Federation Dentaire International (the two digit system)

The teeth are designated by using two-digits:

a. The first digit of the code is located at the left side of the number and indicates the quadrant:





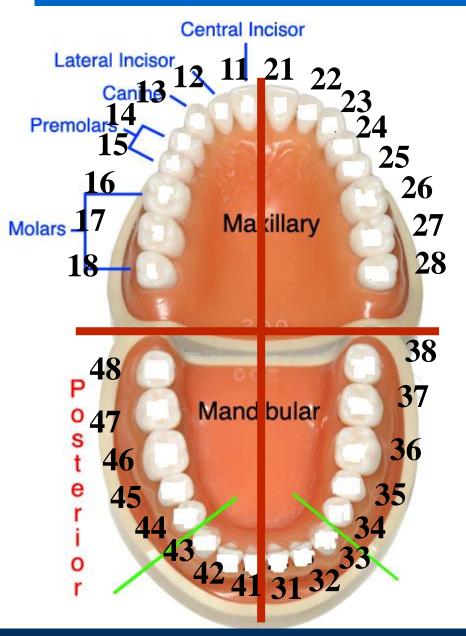
3-International System (Two Digit System) "FDI"

Federation Dentaire International

First Digit = quadrant



For permanent Teeth



Second Digit = Tooth number in the quadrant

b- The **second digit** is located at the right side of the number and indicates the number of the tooth in the quadrant.

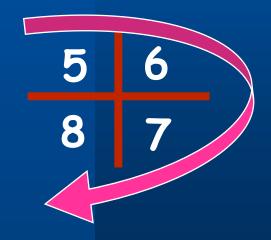
The two digits should be pronounced separately.

Permanent teeth

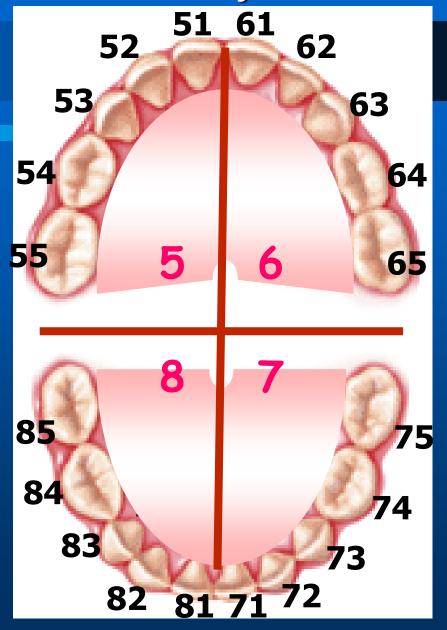
18 17 16 15 14 13 12 11	2 1 2 2 2 3 2 4 2 5 2 6 2 7 2 8
48 47 46 45 44 43 42 41	3 1 32 33 34 35 36 37 38

2-International
System
(Two Digit System)
"FDI"
Federation Dentaire
International

First Digit = quadrant







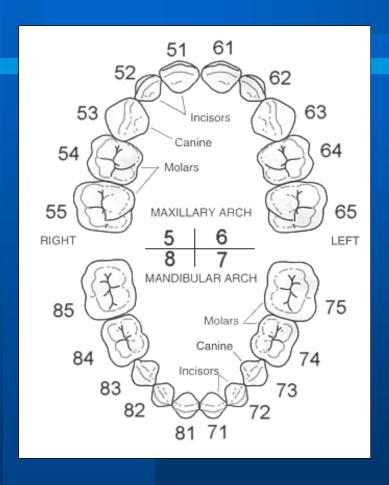
For Primary Teeth 5 6

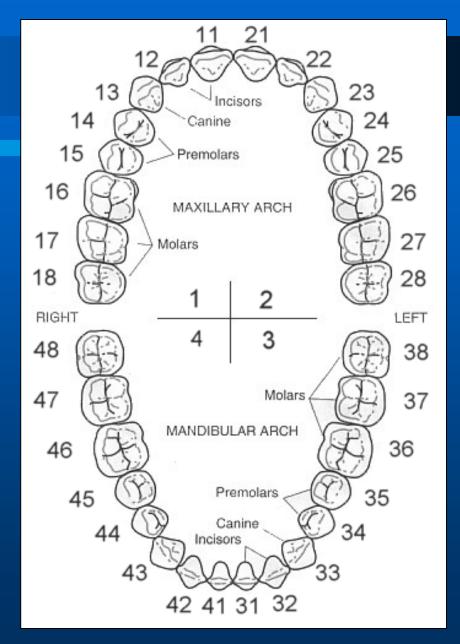
First Digit = quadrant 8 7

Second Digit = Tooth number in the quadrant

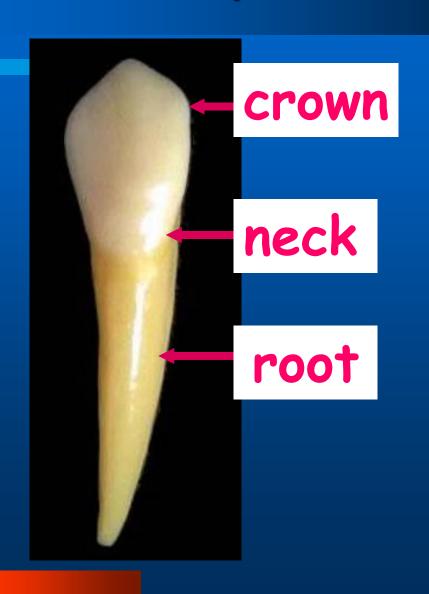
Primary Teeth

55	54	5 3	52	5 1	61	62	63	64	65
85	84	83	82	8 1	71	72	73	74	7 5





Macro anatomy of Teeth



Single-rooted

Multi-rooted











The Helenhermical Conversity https://www.facebook.com/Theftschem.Rel.Claiversity

THANK YOU

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