








Math4010 Midterm 1 Reference Sheet

Egyptian Numeral System

					
1	10	100	1000	10,000	100,000
					
1,000,000					

Roman Numeral System

I = 1
V = 5
X = 10
L = 50
C = 100
D = 500
M = 1000

Babylonian Numeral System

		
1	10	Placeholder

Horizontal format; base 60.

place values --> 60^3 60^2 60 1

Mayan Numeral System



1



5



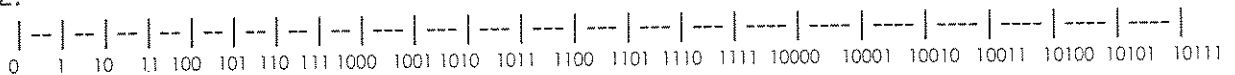
0

Vertical format.

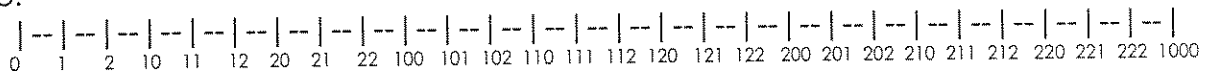
Place values--> $18 \cdot 20^2$
 $18 \cdot 20$
 20
 1

Base Number Lines

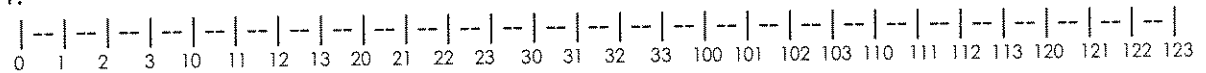
Base 2:



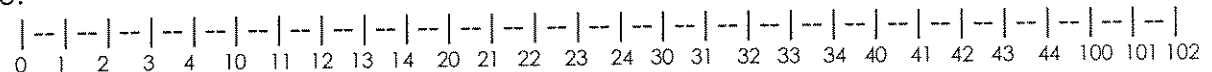
Base 3:



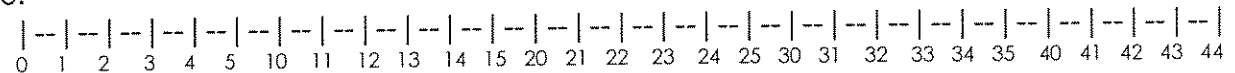
Base 4:



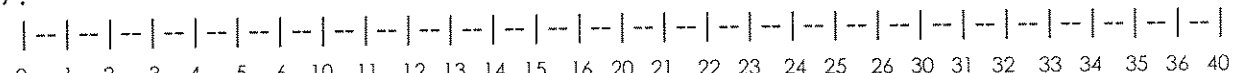
Base 5:



Base 6:



Base 7:



Base 8:



Base 9:



Base 11:

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
0 1 2 3 4 5 6 7 8 9 T 10 11 12 13 14 15 16 17 18 19 1T 20 21 22 23 24 25 26

Base 12:

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
0 1 2 3 4 5 6 7 8 9 T E 10 11 12 13 14 15 16 17 18 19 1T 1E 20 21 22 23 24

Base Place Values (given in base 10 numbers)

Base 2: 512 256 128 64 32 16 8 4 2 1

Base 3: 729 243 81 27 9 3 1

Base 4: 1024 256 64 16 4 1

Base 5: 3125 625 125 25 5 1

Base 6: 7776 1296 216 36 6 1

Base 7: 16807 2401 343 49 7 1

Base 8: 32768 4096 512 64 8 1

Base 9: 6561 729 81 9 1

Base 11: 14641 1331 121 11 1

Base 12: 20736 1728 144 12 1