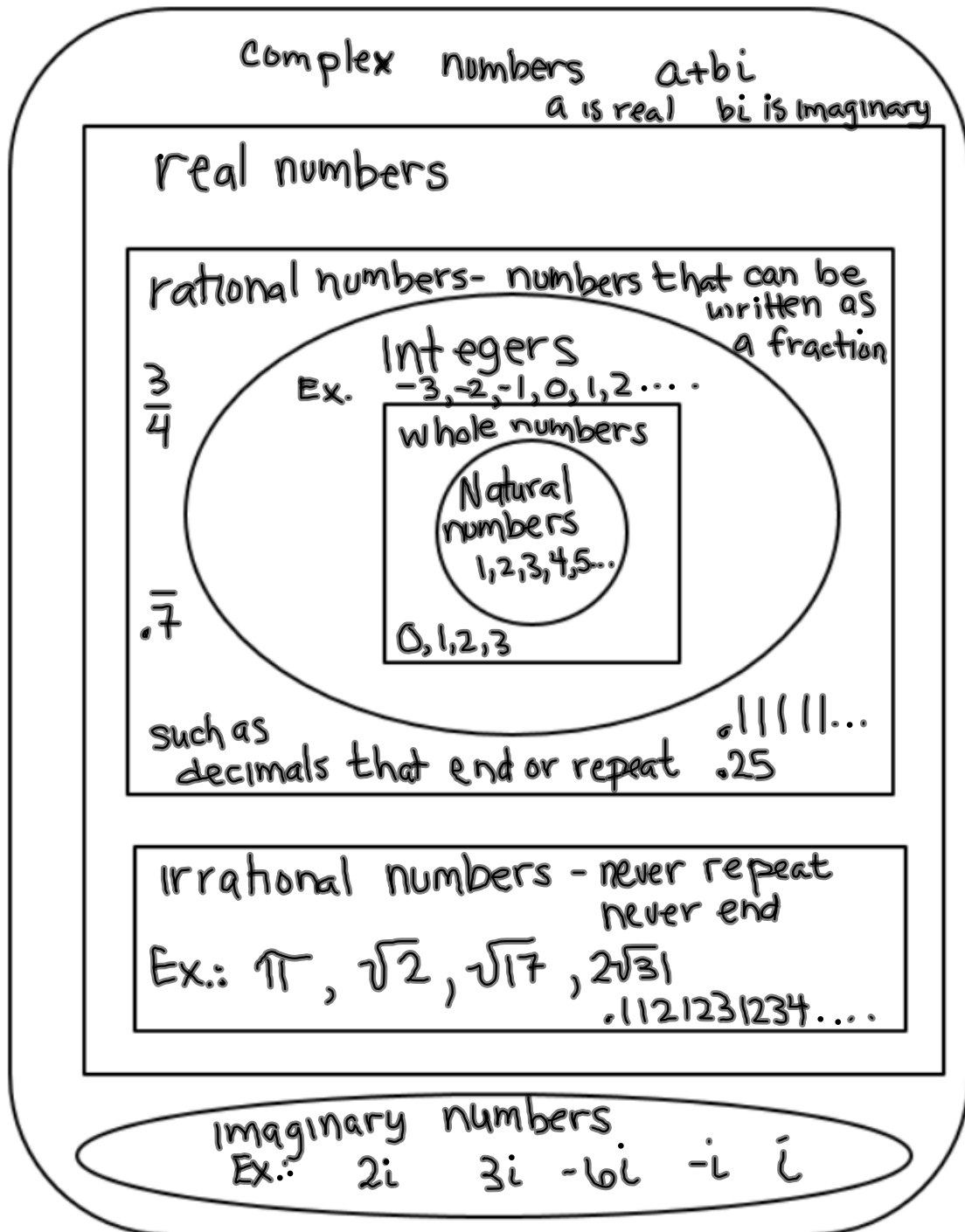


Section 4.1

Objective: Number Theory



Divisibility Rules

Numbers divisible by:	If:	Example:
2	The last digit is even.	18 46 20 24 42
3	If you can divide the sum of the digits by 3 evenly.	123 54 912
4	The last 2 digits are divisible by 4.	424 3,564 140
5	The last digit is 0 or 5.	70 185
6	If the number is divisible by 2 and 3.	312

8	If the last 3 digits are divisible by 8.	800 1240
9	If you can divide the sum of the digits by 9 evenly.	4518 since $4+5+1+8=18$ $18 \div 9 = 2$
10	If the last digit is 0.	5040 750 800

Prime number: a whole greater than 1 that is only divisible by 1 and itself

a whole number greater than 1 that
is only divisible by 1 and itself

Examples:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43,
47, 53, ...