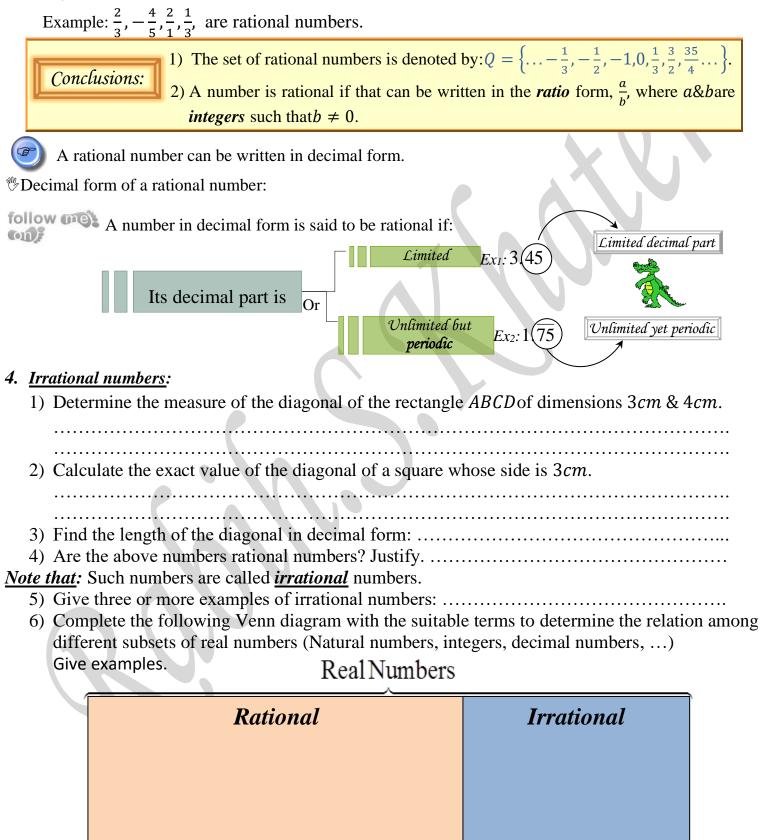
Lycée Des Arts	Mathematics	s	8 <sup>th</sup> -Grad
Lycée Des Arts Name:	"Square roots	, <i>11</i>	8 <sup>th</sup> -Grad A.S-8.4.
Notion about numbers: <u>Natural numbers</u> : Write down numbers that you use	for counting the number o	of pages of a book or any ot	her thing we us
<u><i>Ex<sub>1</sub></i></u> : Consider the set of number a) Trace a number line an	rs {1,2,3,4,5,}. d place the above numbers	s on it.	
	out the position of these nu	umbers on the number line?	
<u><i>Ex</i></u> <sub>2</sub> : Consider the following equat a) Solve equation-1 for $x$ in the	ions:1) $x + 3 = 5$ 2) set $\mathbb{N}$ .		
b) If you are only familiar with equation-2? Show your work	the set of natural numbers	s, then can you find a value	 of <i>x</i> that satisf
c) What suggestions would you			· volo · P
<b>Integers:</b> As you noticed, from the abbelong to $\mathbb{N}$ cannot be solved in <u><i>Ex</i></u> <sub>3</sub> : What type of numbers would	pove example that some end the set $\mathbb{N}$ .	equations of the form $x + a$	a = b, where $a$
- Temperature below zero.	- Down slopes.	- Value that verifies: 2	x + 3 = 2
- Places below ground floor	- Loss.		
$\succ$ So we will extend the	set $\mathbb{N}$ to the set of integers	$\mathbb{Z}$ , which stands for <u>Zahler</u>	<u>ı</u> .
The set of integers cor	nsists of numbers such as:		
-5 -4 -3	-2 -1 0 1	2 3 4 5	►
<u><i>Ex<sub>4</sub></i></u> : Describe the set of integers in	n terms of natural numbers		
		by: $\mathbb{Z} = \{\dots -3, -2, -1, 0, 1\}$	
0,			
	s in Z:		
$\underline{Ex_5}$ : Solve the following equations			

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## 3. <u>Rational numbers:</u>

 $\mathbb{Z}$ , is insufficient to solve some equations of the form ax + b = 0, where *a*&bbelong to  $\mathbb{Z}$ . So, we will extend the set  $\mathbb{Z}$  into the set of *rational* numbers.



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