Grade: 8A&B
Math Homework
1st TERM   **American Syllabus (SY 2015-2016)**
                        International Jubilee Private School

                                        Date : 30-August, 2016

Chapter: 1-1   RATIONAL AND IRRATIONAL NUMBERS

Sign up at **Khanacademy.org** or log in if you already have an account.

Search these two video clips from Khan Academy.

- **Introduction to rational and irrational numbers**

- **Recognizing irrational numbers**

The links are here if you can't find them.

https://www.khanacademy.org/math/pre-algebra/order-of-operations/rational-irrational-numbers/v/introduction-to-rational-and-irrational-numbers

https://www.khanacademy.org/math/pre-algebra/order-of-operations/rational-irrational-numbers/v/recognizing-irrational-numbers

Task

1) Watch the videos as many times as you like.

2) Do the practice questions on 'Recognizing rational and irrational numbers'

3) Then answer questions 1 to 4 giving a detailed reason for choosing rational or irrational.

4) Print or write out your answers ready to submit in one week.

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1)

Indicate whether each number is rational or irrational.
Explain the reason for your choice.

	Rational	Irrational	Explanation
$1\frac{1}{8}$	◯	◯	
1.111	◯	◯	
$3\sqrt{2}$	◯	◯	
$1.\bar{1} = 1.111...$	◯	◯	
$\sqrt{170}$	◯	◯	

2)

Indicate whether each number is rational or irrational.
Explain the reason for your choice.

	Rational	Irrational	Explanation
$-\frac{13}{12}$	◯	◯	
$\sqrt[3]{11}$	◯	◯	
$\sqrt{21}$	◯	◯	
$4\frac{2}{3}$	◯	◯	

3)

Indicate whether each number is rational or irrational.
Explain the reason for your choice.

	Rational	Irrational	Explanation
$\sqrt{3}$	◯	◯	
$0.\overline{732}$	◯	◯	
$\sqrt{35}$	◯	◯	
$\frac{0.31}{0.41}$	◯	◯	
$\sqrt{12}$	◯	◯	

4)

Indicate whether each number is rational or irrational.
Explain the reason for your choice.

	Rational	Irrational	Explanation
$\frac{95}{4}$	◯	◯	
$0.\overline{357} = 0.357357...$	◯	◯	
$\frac{\sqrt{7}}{3}$	◯	◯	
$\pi - 1$	◯	◯	
$-\sqrt{5}$	◯	◯	