

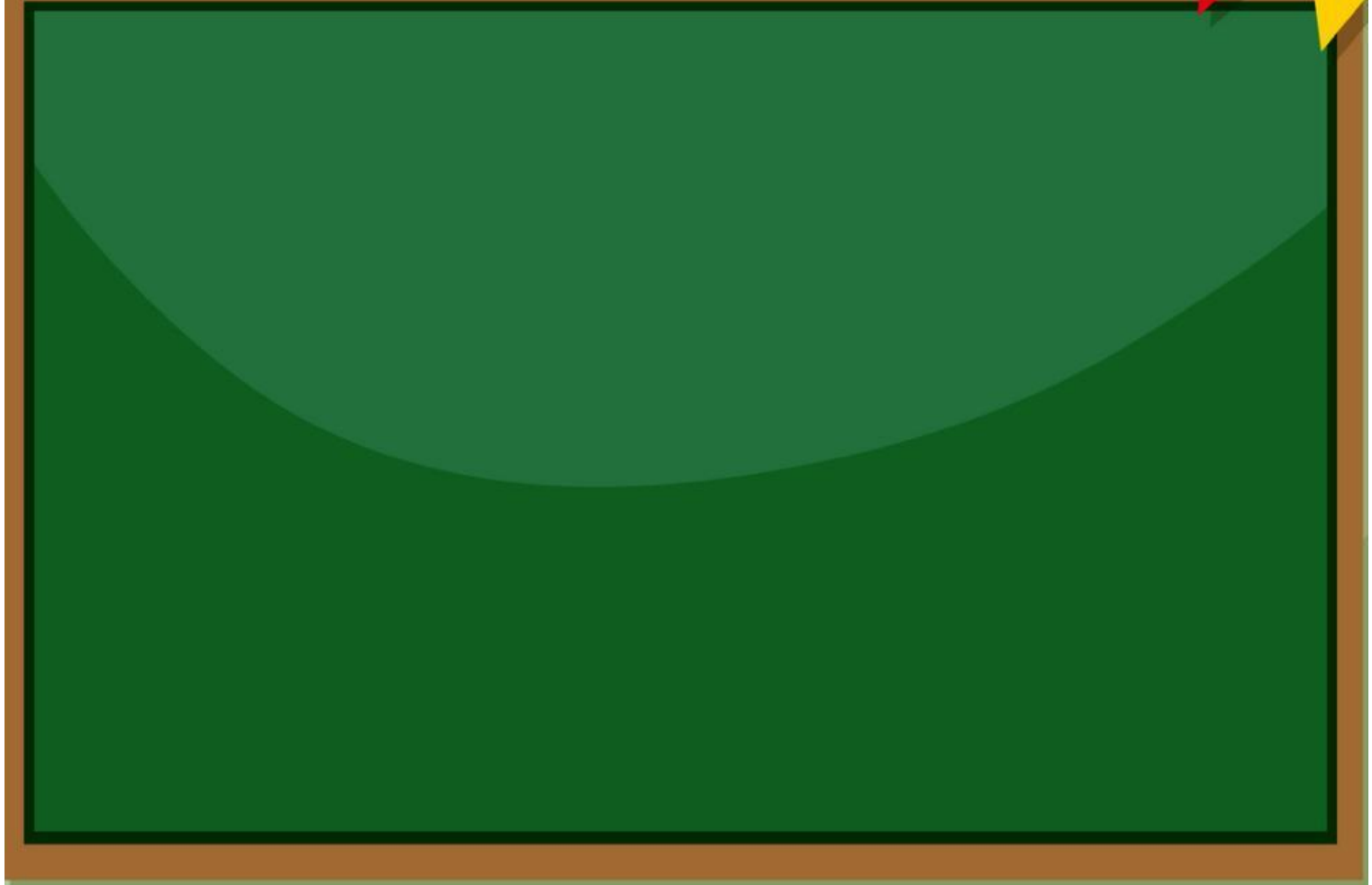
RATIONAL AND IRRATIONAL NUMBERS



Name: _____

Class : _____

WATCH THE FOLLOWING VIDEO BEFORE ANSWERING THE QUESTIONS BELOW



RATIONAL NUMBERS

WHAT IS THE DEFINITION OF RATIONAL NUMBERS?

RATIONAL NUMBERS FORM:

$$\frac{a}{b} \longrightarrow \frac{\quad}{\quad}$$

WHERE A AND B ARE INTEGERS, AND B CANNOT BE 0

WRITE 3 EXAMPLES OF RATIONAL NUMBERS!





Trace and Match

Match the correct decimal form of rational numbers.

$$\frac{6}{3} .$$

$$\cdot 0,75$$

$$\frac{3}{6} .$$

$$\cdot 0,125$$

$$\frac{22}{7} .$$

$$\cdot 0,5$$

$$\frac{3}{4} .$$

$$\cdot 3,14$$

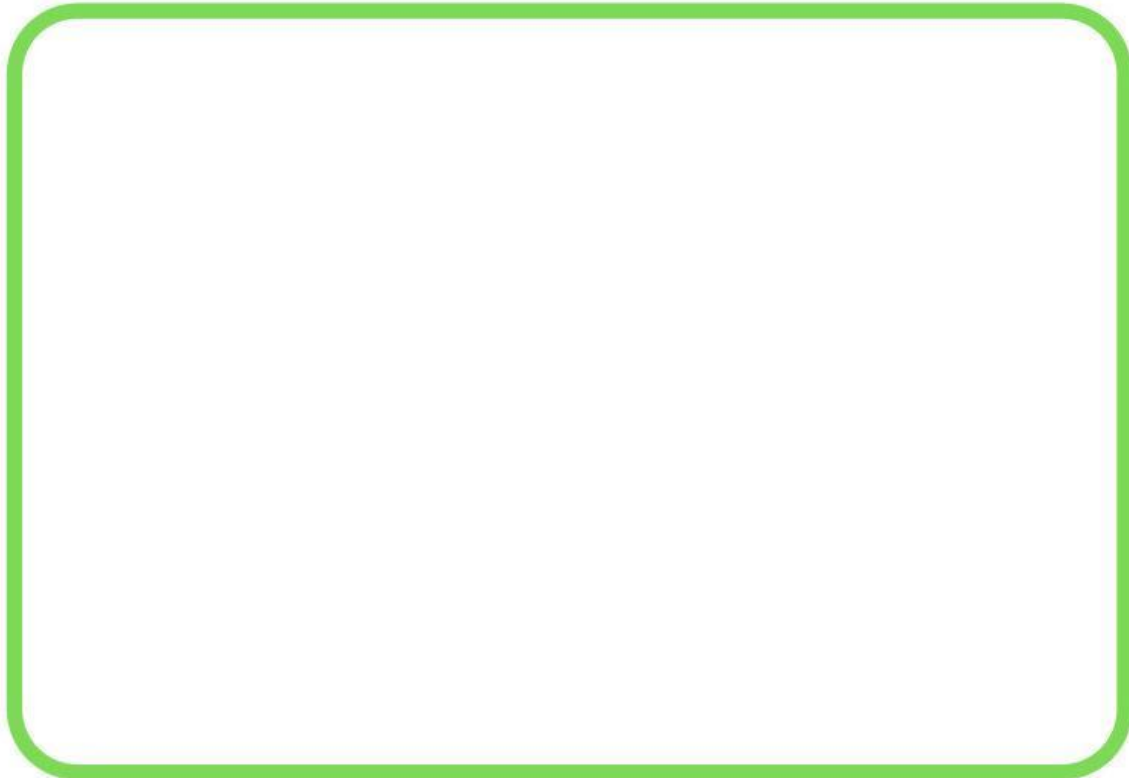
$$\frac{1}{8} .$$

$$\cdot 0,77$$

$$\frac{7}{9} .$$

$$\cdot 2,00$$

WATCH THIS VIDEO TO CONTINUE YOUR WORK!



complete the table below!

Form $\sqrt{a}$	Decimal Form	Form $\frac{a}{b}$
$\sqrt{4}$	2,00	$\frac{2}{1}$
$\sqrt{3}$	1,7320508076...	_____
$\sqrt{8}$		_____
Form $\sqrt{a}$	Decimal Form	Form $\frac{a}{b}$
$\sqrt{9}$		_____
$\sqrt{16}$		_____





Can all of above decimals in the table be formed into a/b fractions? If not, specify which decimals cannot be changed.

**Bisakah semua bilangan desimal pada tabel di atas diubah menjadi bentuk pecahan a/b ?
Jika tidak, tuliskan pecahan desimal mana saja yang tidak dapat diubah menjadi a/b !**

**Is a decimal that cannot be converted into an ordinary fraction a rational number?
Give me a reasons!**

**Bapakah desimal yang tidak bisa diubah menjadi pecahan biasa merupakan bilangan rasional.
Berikan alasan!**

IRRATIONAL NUMBERS

MEANING

IRRATIONAL NUMBER ARE
NUMBERS THAT **CANNOT BE**
DENOTED IN TERMS OF FORM
A/B.

EXAMPLE

$$\sqrt{3}=1,7320508076$$

$$\sqrt{6}=2,4494897428$$

$\sqrt{3}$ and $\sqrt{6}$ return a decimal value that indicates it has no and pattern, does not repeat and does not stop.

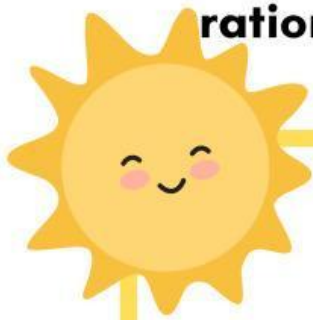
$$\frac{5}{7} = 0,714285714$$

5 divided by 7 produce value 0,714285714. It means that the resulting decimal value indicates no repeating and patterned and non-stopping.



DISCUSS

Now, discuss with your friend **the different or rational number and irrational number.**



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EMOTIONS PICK!

After studying this material, how do you feel?

