

THIS IS WHAT
I CALL...

DUAL INVERSAL NUMBERS

E.G.

2 & 5

$$1/2 = 0.5$$

$$1/5 = 0.2$$

OK ... How about 4?

4 & 25

$$1/4 = 0.25$$

$$1/25 = 0.04$$

Pretty simple, eh? Watch out cos 'ere they come – more of 'em!

THE GREAT ...

27 & 37!

$$1/27 = 0.\overline{037}$$

$$1/37 = 0.\overline{027}$$

These lines mean recurring
so $0.\overline{037} = 0.037037037037037\dots$



THE GREAT ...

27 & 37!

$$1/27 = 0.\overline{037}$$

$$1/37 = 0.\overline{027}$$

These lines fit
so $0.\overline{037} = 0$

- Help
- Cut
- Copy
- Paste
- New Slide
- Duplicate Slide
- Delete Slide
- Slide Layout
- Slide Theme
- Format Background...
- Transform...
- Hide Slide
- Reset
- Coolio
- Zoom...
- New Slide Show

WANT
MORE?

7 & 142857

$$1/7 = 0.\overline{142857}$$

$$1/142857 = 0.\overline{000007}$$

Oh yeah ... I forgot (drum roll please)

3
3

$$1/3 = 0.\overline{3}$$

$$1/3 = 0.\overline{3}$$

3 is a 'cannibal'
dual inversal.

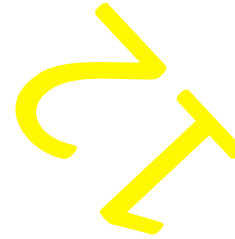
Number	Pair
1	10
2	5
3	3
4	25
5	2
6	*
7	142857
8	125
9	11
10	1

Number	Pair
11	9
12	*
13	76923
14	714285
15	*
16	625
17	58823529 4117647
18	*
19	52631578 94736842 1
20	50

*We'll come back to these later!

HERE ARE A FEW
INTERESTING THINGS
INTERESTING THINGS
HERE ARE A FEW

*Interesting point no. 1 - It doesn't work for everything...



6

15

81

They are all multiples of 3 but it does not work for some e.g. 21 & 47619

Interesting point no. 2

If A & B and C & D are dual
inversal pairs then AC & BD
and AD & BC are dual inversal pairs.

Interesting point no. 3 - length of the recurring sequence is always the same in a pair

$$\begin{array}{l} 1/4 = 0.2\overline{5} \\ 1/25 = 0.0\overline{04} \end{array}$$

Length = 2

$$\begin{array}{l} 1/7 = 0.\overline{142857} \\ 1/142857 = 0.0\overline{000007} \end{array}$$

Length = 6

$$\begin{array}{l} 1/27 = 0.0\overline{037} \\ 1/37 = 0.\overline{027} \end{array}$$

Length = 3

$$\begin{array}{l} 1/17 = 0.\overline{0588235294117647} \\ 1/588235294117647 = 0.0\overline{0000000000000017} \end{array}$$

Length = 16

Thanks for watching!

