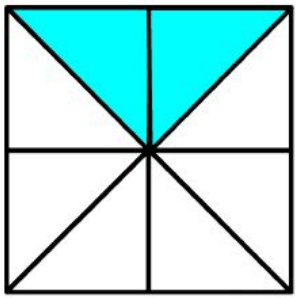
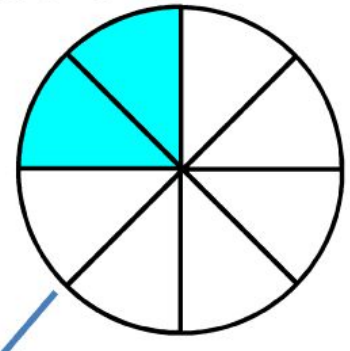

Math
+ − × ÷

Why did or didn’t you like Math at school?

What’s the difference between a fraction and a decimal?

Two-eighths





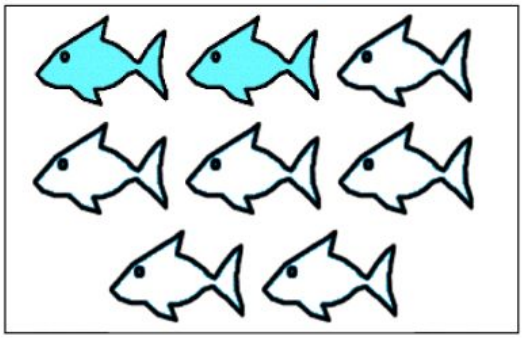
$\frac{2}{8}$

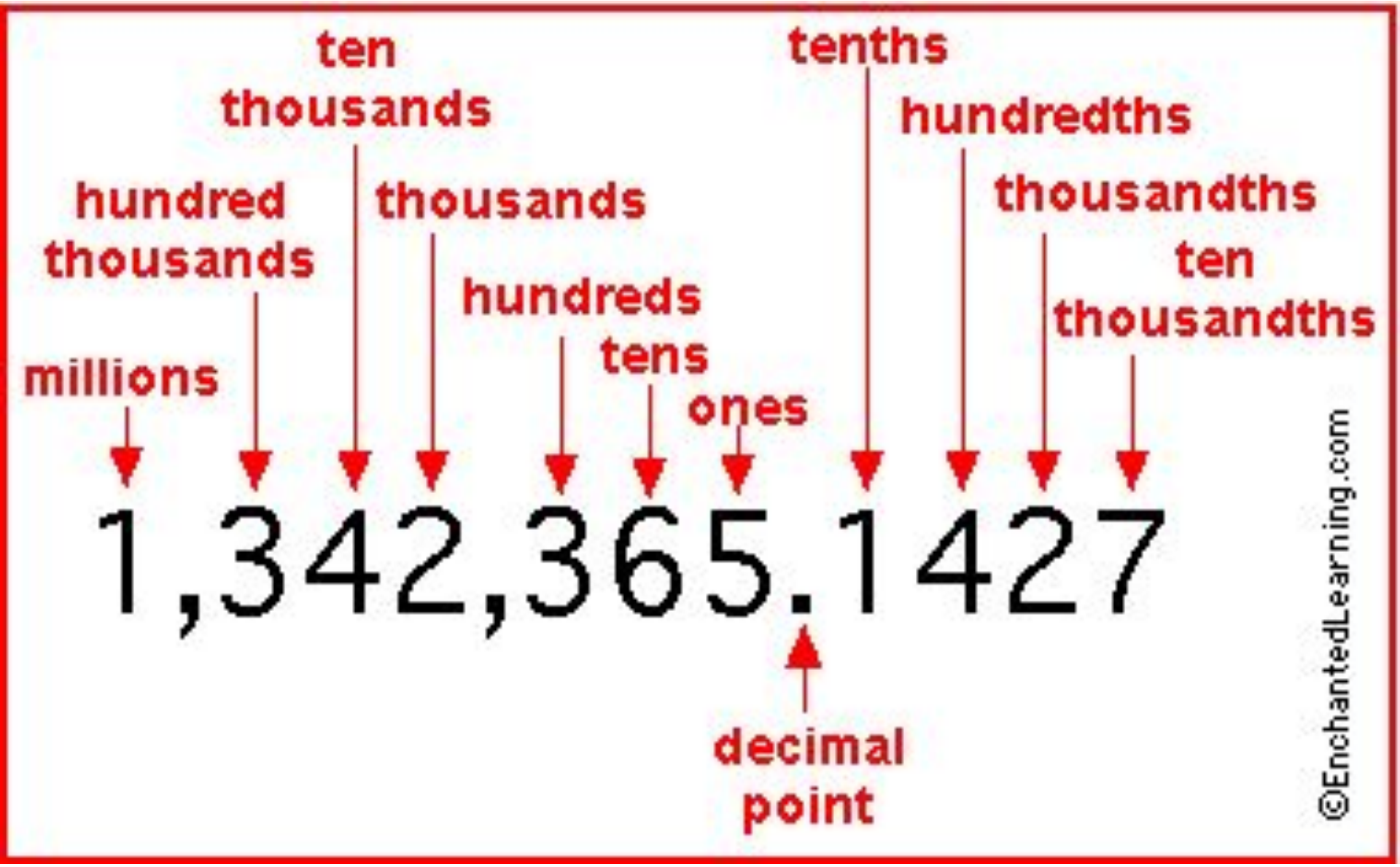
0.25

DECIMAL

25%

PERCENT




millions
hundred thousands
ten thousands
thousands
hundreds
tens
ones
tenths
hundredths
thousandths
ten thousandths
1,342,365.1427
decimal point
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Are girls or boys better at Math?

Do you think Math is a waste of time now, with all the computers around?

Why do people call Math a language? What features of a language does it have?

Why is mental arithmetic important? Where do we use it?

How can you improve mental arithmetic? Have you learned a times table at school?

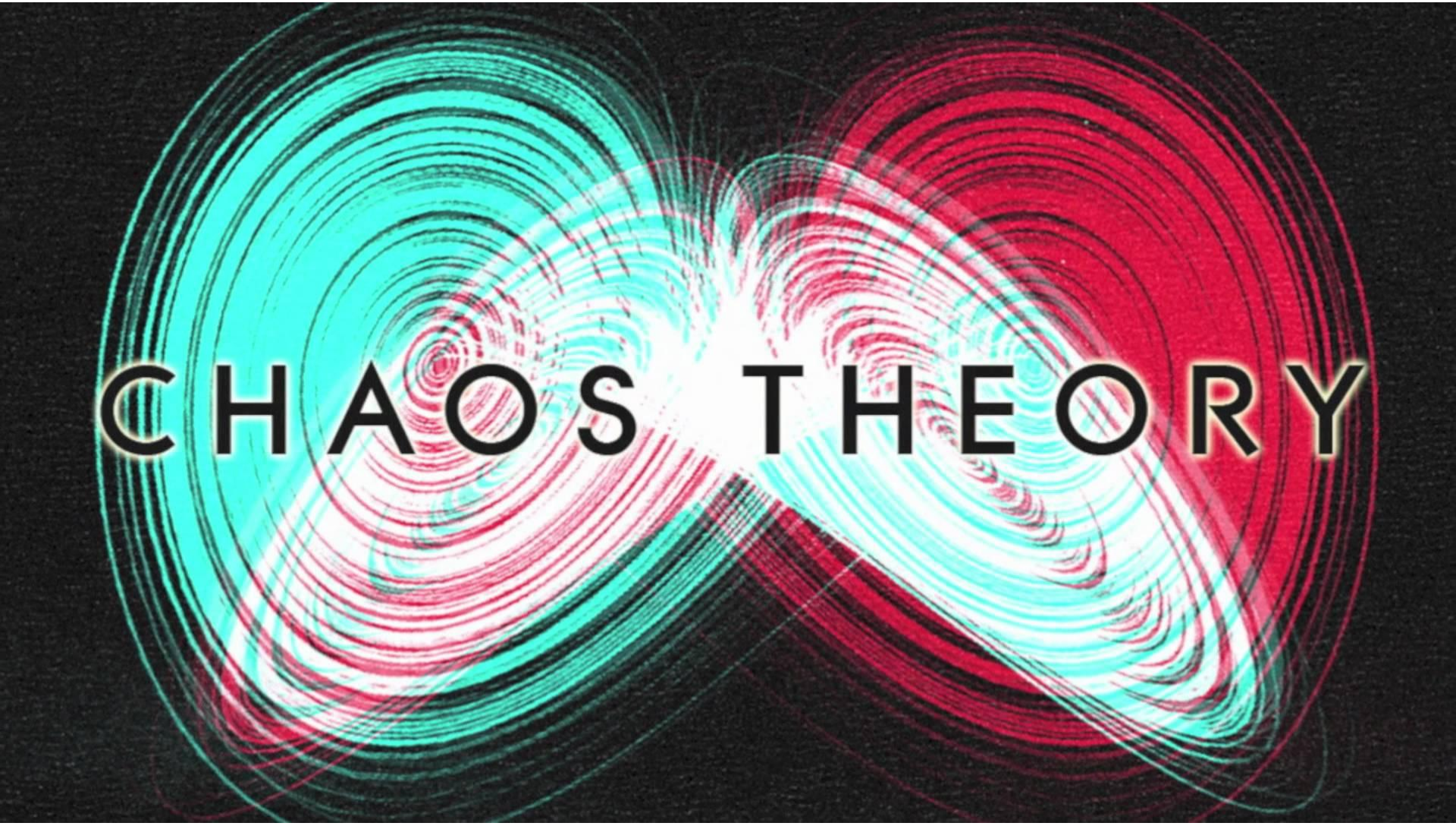
Times Table - 12x12

	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1	**1**	2	3	4	5	6	7	8	9	10	11	12
2	2	**4**	6	8	10	12	14	16	18	20	22	24
3	3	6	**9**	12	15	18	21	24	27	30	33	36
4	4	8	12	**16**	20	24	28	32	36	40	44	48
5	5	10	15	20	**25**	30	35	40	45	50	55	60
6	6	12	18	24	30	**36**	42	48	54	60	66	72
7	7	14	21	28	35	42	**49**	56	63	70	77	84
8	8	16	24	32	40	48	56	**64**	72	80	88	96
9	9	18	27	36	45	54	63	72	**81**	90	99	108
10	10	20	30	40	50	60	70	80	90	**100**	110	120
11	11	22	33	44	55	66	77	88	99	110	**121**	132
12	12	24	36	48	60	72	84	96	108	120	132	**144**

Are there times when two plus two equals five?

What happens if you don’t round these numbers?

2.25+2.26=?


CHAOS THEORY

In Jurassic Park (1993) a chaos theorist Ian Malcolm explains the gist of it:

Butterfly Effect

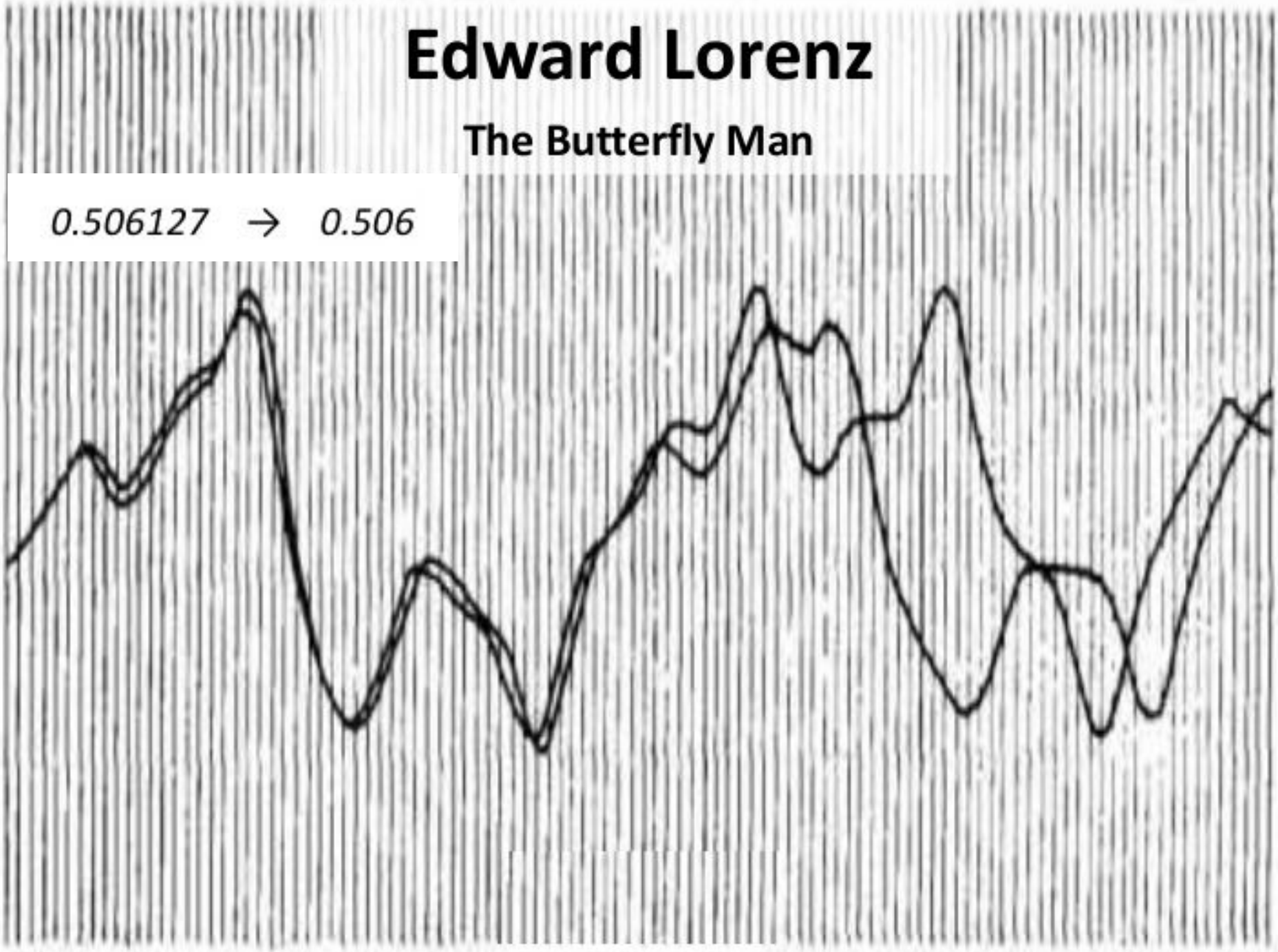
Flap of a butterfly's wing in Brazil can set off a cascade of atmospheric events that, weeks later, spurs the formation of a tornado in Texas


BEIJING
KANSAS

Edward Lorenz

The Butterfly Man

0.506127 → 0.506



Prediction Horizon

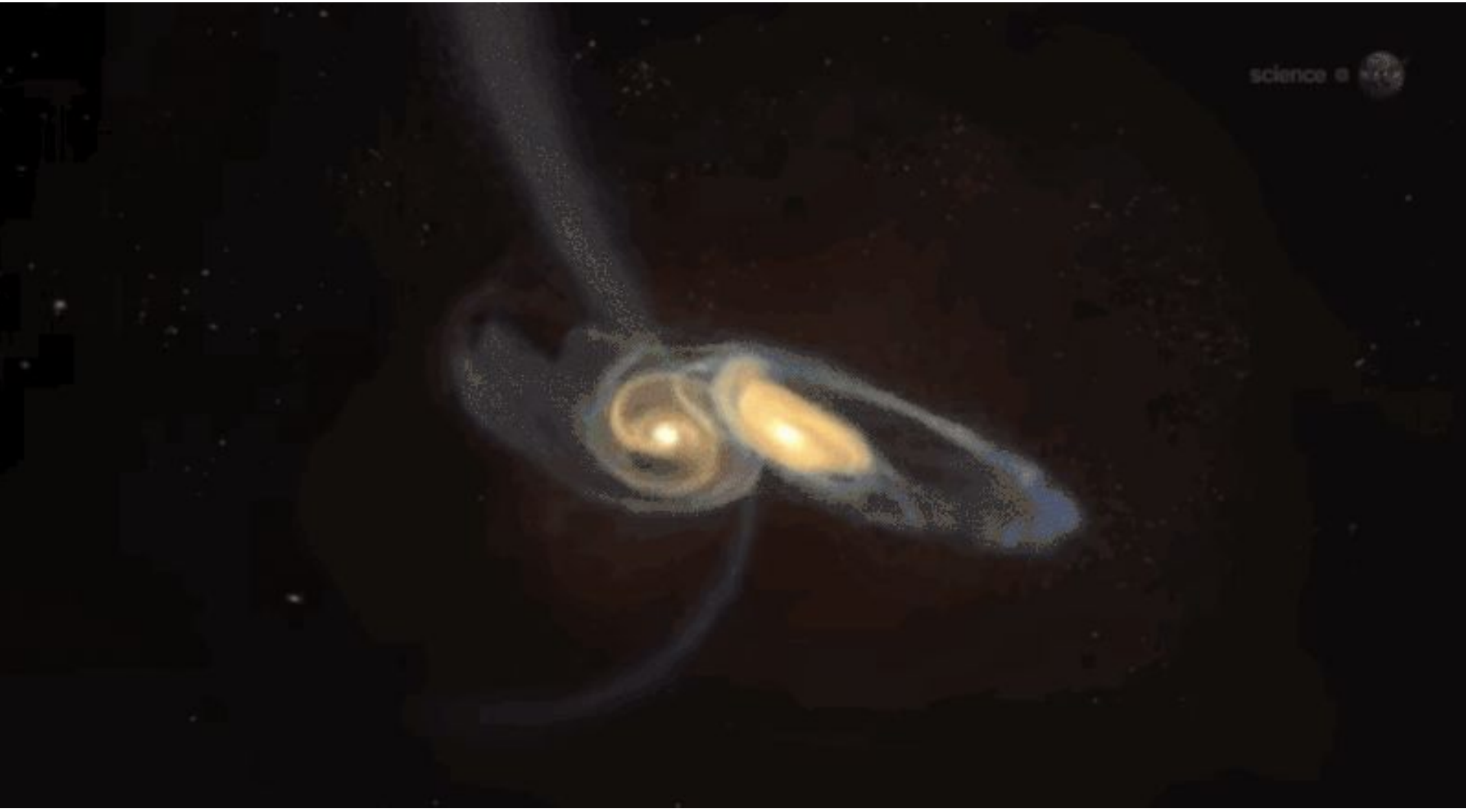
- a length of time beyond which we can no longer accurately forecast something.

What can affect the Prediction Horizon?

Up until 2008 most computers were using the **IEEE 754-1985** calculation standard

IEEE 754-1985 could work with 16 decimals

Current 754-2008 generally handles up to 32 decimals


science a

How is it possible to calculate the probabilities?

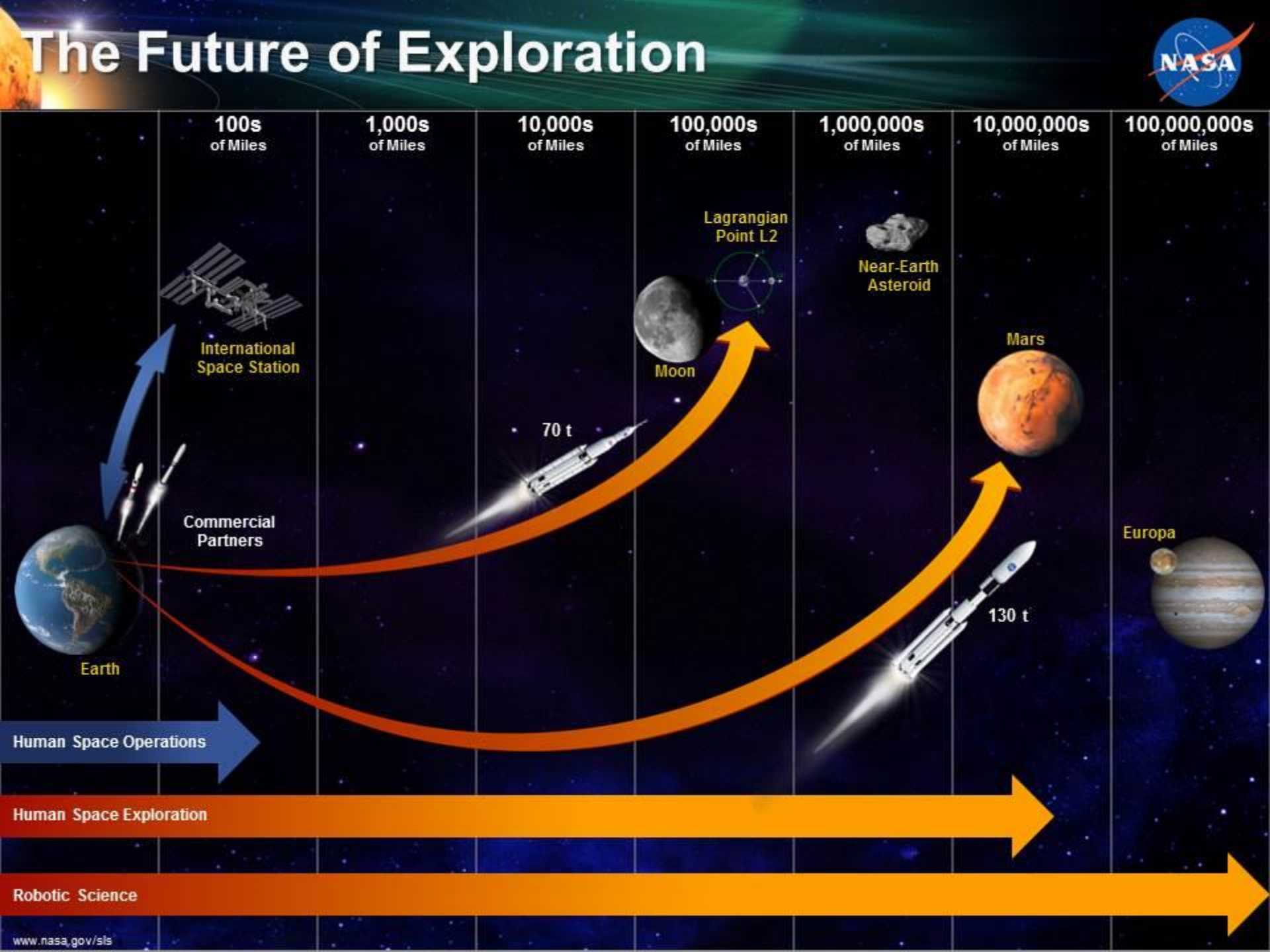
Why do we need to calculate them?

Quantum computers

Created from **probability** particles called qu-bits, quantum computers aim at computing probabilities, which linear computers can't calculate.

Weather

The Future of Exploration



Banking


73 583
62
429
3 054
135
93 293
75 262
63
455
3 494
138
95 153
720
12 251
338
46

Purchase Behavior


$99.99

Control Horizon is the length of time which we need to beneficially alter the predicted future

What is Alertness?

Do you often think about what to do if things don’t go as planned?