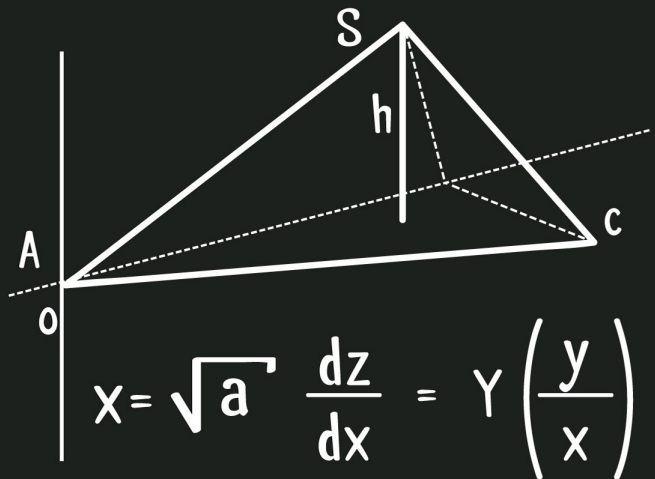


$$\begin{cases} x_1 + x_2 + x_3 = 1 \\ 8x_1 + 3x_3 + 10x_3 = 15 \\ 13x_1 + 5x_2 + 6x_3 = -2 \end{cases}$$

$$\int f(x,y,z) dz$$

x Inx Sa

$$\iiint \frac{dx dy dz}{(1+x+y+z)^2}$$

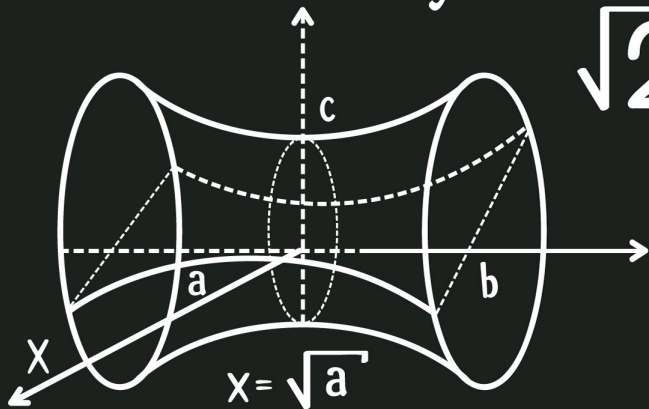


$$\uparrow \frac{b-c^3 \cdot \cos a}{a} \quad b+a$$

$$\frac{\Delta f}{\Delta x} \quad 5x^2 + 6y^3 = -1$$

# Math

$$a+b \quad \frac{f(x) - f(x_0)}{x - x_0}$$



$$\sqrt{2} \cdot \sin 2x \quad \frac{b-c \cdot \cos a}{a}$$

$$5x^2 + 14xy + 2y^2 = -18$$

$\text{Acosx} \cdot \text{arctg}$   
designed by freepik

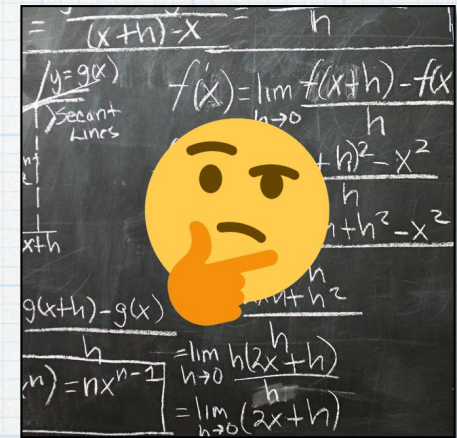
$$2 \sin^3 52^\circ = 1$$

TOK / AOK / I'm OK / You're OK / Math is Not OK

# In England they call it Maths

Questions that may or may not be important:

- Is Math is invented or discovered?
- Is Math beautiful?
- Is Math a language?
- Is Math real or abstract?
- Why study Math?



How would you define Math?

Math is a formal system used to recognize, classify, and exploit the patterns and properties of the world around us.

Math: Why does my brain hurt?

## AOK: Mathematics

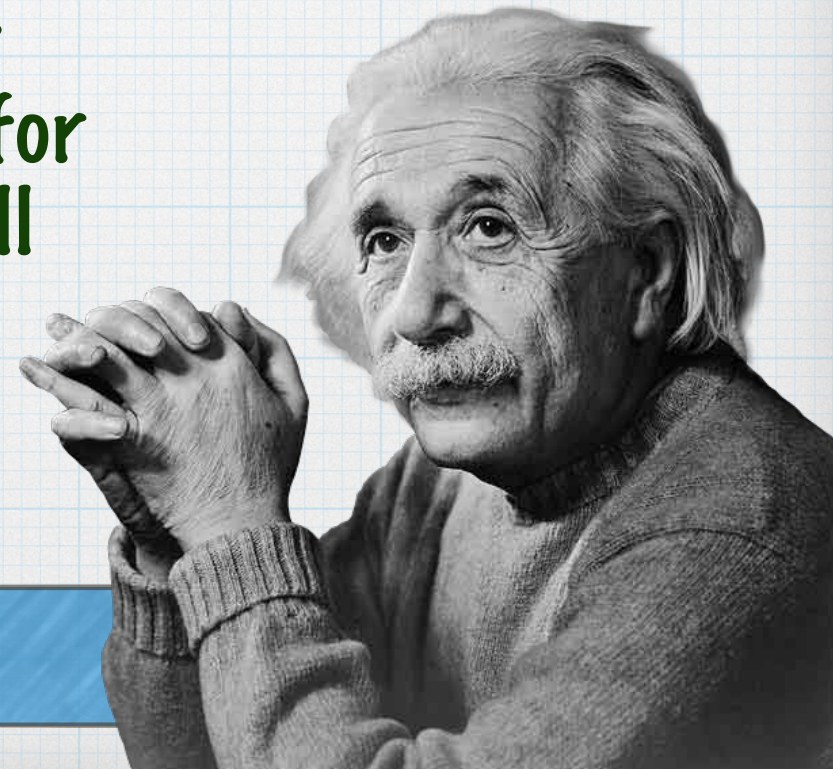
“Insofar as the statements of mathematics are certain, they do not refer to reality; and insofar as they refer to reality, they are not certain.”

Einstein

Calculate exactly how much time you need from the time your alarm wakes you up to get to school by 8:15 AM. What is your margin for error in minutes that includes all the things that could make you late?



Math: an exact science?



## AOK: Mathematics

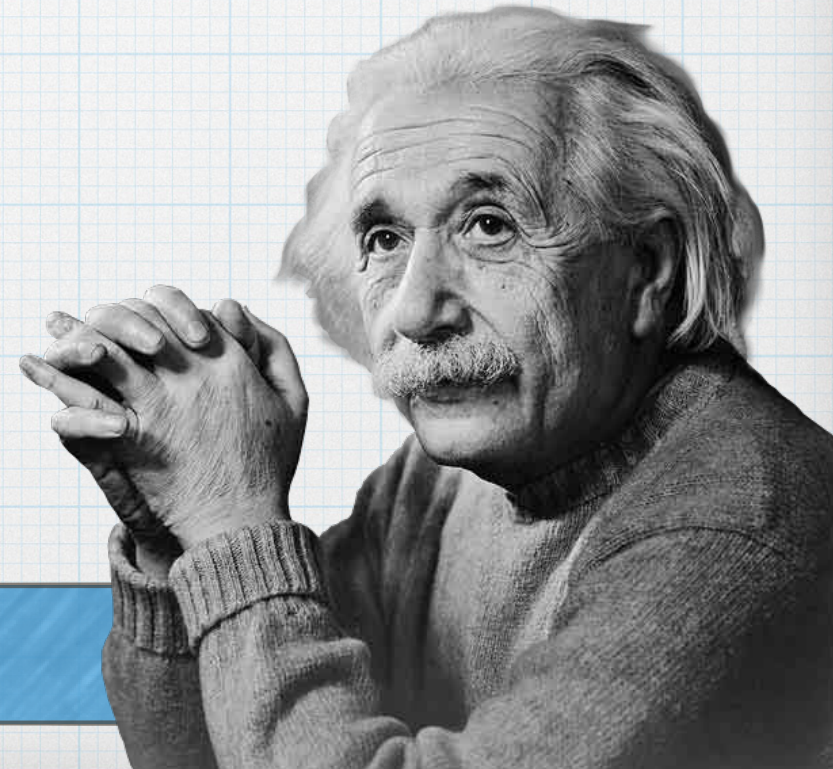
"Not everything that counts can be counted. Not everything that can be counted counts."

Einstein

If I have 4 cows and I took away 5,  
how many would I have left?



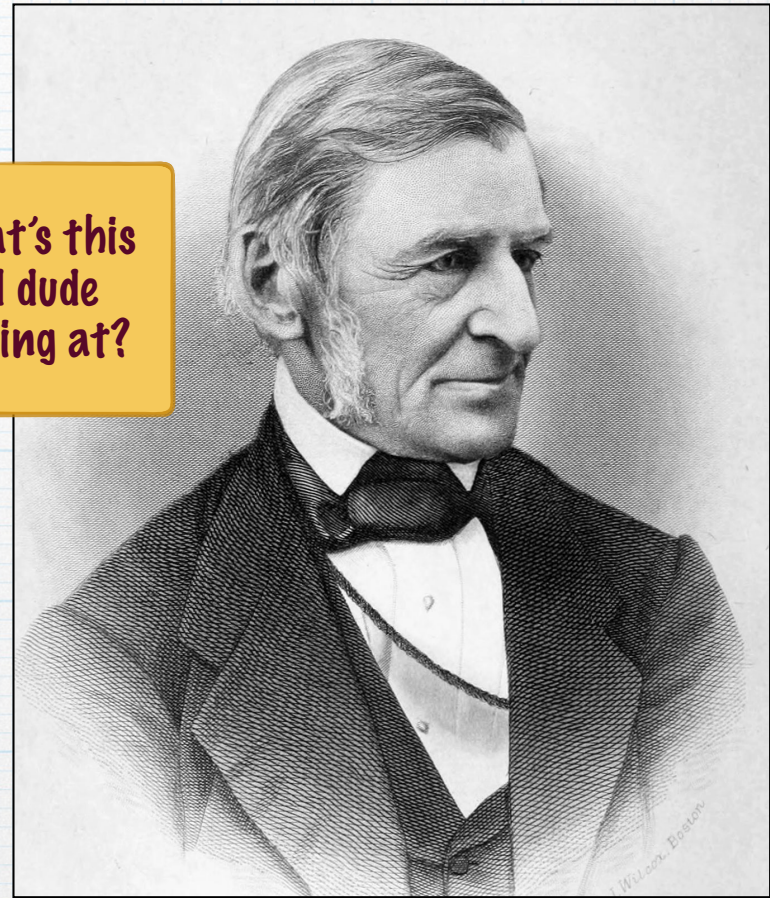
Math: Real or Imagined?



# AOK: Mathematics



What's this  
old dude  
looking at?



Roger Antonsen

Ralph Waldo Emerson

**Math: the hidden secret to understanding the world?**