

Good afternoon!

- Please get a calculator, record number on top of syllabus
- Please get a textbook from back of room: write name ON and IN it
- Please have your notebooks out for the warm up

Can take one from back table if needed.

**Leave first page  
(front and back) blank!!**

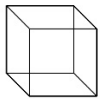
Reminders:

Read essay by next class  
Parent survey on website  
\$5 math fee

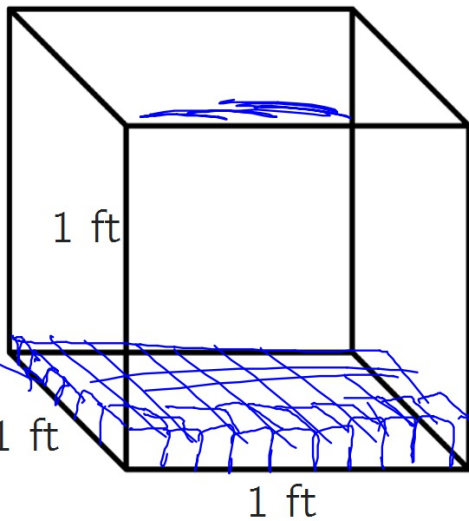
BTW: Seating chart  
starting next class

How many 1 inch cubes will fit in this box?

$$(12 \text{ in})^3 = (1 \text{ ft})^3$$



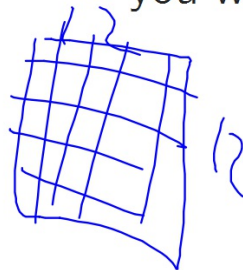
1 in



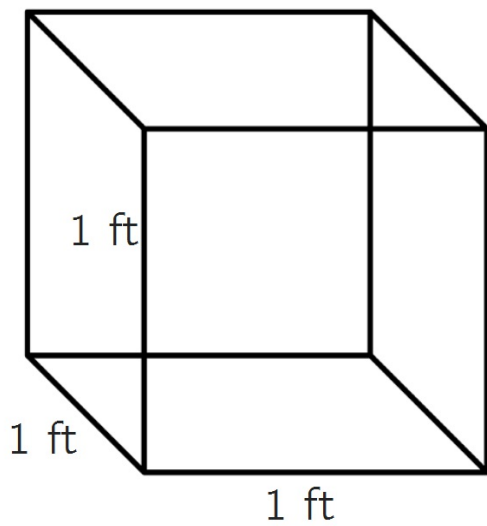
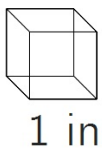
Do this in your notebooks  
Stuck? Ask your neighbors

I will come around and get  
your calculator number as  
you work

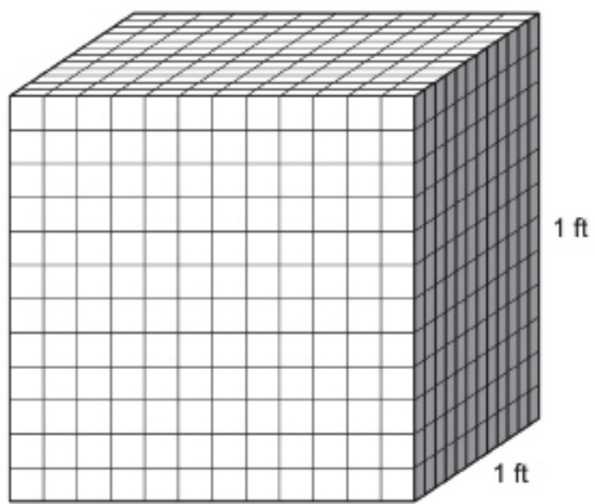
$$\begin{array}{r} 144 \\ \times 12 \\ \hline 1728 \end{array}$$



How many 1 inch cubes will fit in this box?



  
cubic inch



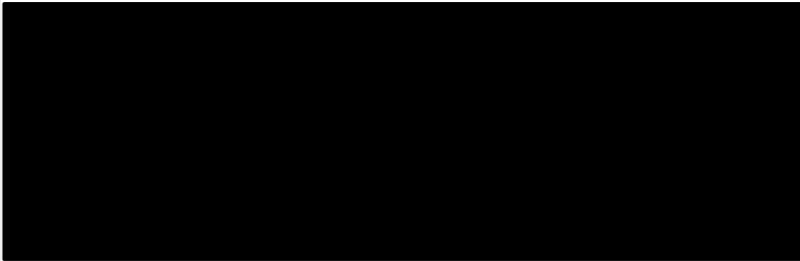
What is geometry?

(notes--in notebook)

Think of a reasonable answer.

Tell your face partner.

The person with longer hair goes first.



From Greek:  
*Geo* - earth; think of geography, geology  
*Metria* - measure



Euclid of Alexandria

lived around 300 BCE (23 centuries ago)

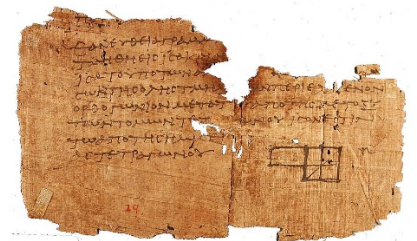
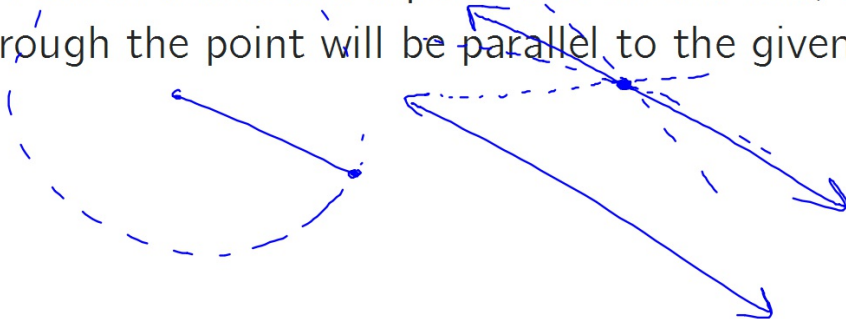
Wrote math text, *Elements*

Used around the world as the primary textbook for geometry well into the 1900s



Five Axioms (basic assumptions) of Euclidean Geometry (no need to copy )

1. A straight segment can be drawn between any two points
2. A segment can be extended indefinitely into a line.
3. Given a segment, a circle can be drawn with the segment as radius
4. All right angles are congruent (the same).
- 5\*. Given a line and a point not on the line, only one line going through the point will be parallel to the given line.





What does all this mean???

I will show you a short video.

What do you notice? (*I notice that....*)

What do you wonder? (*I wonder...*)



<https://www.101cs.com/2675>

How many Girl Scouts Cookies boxes will fit in the Nissan Rogue?



Write down a number too low, too high, and then your best guess.



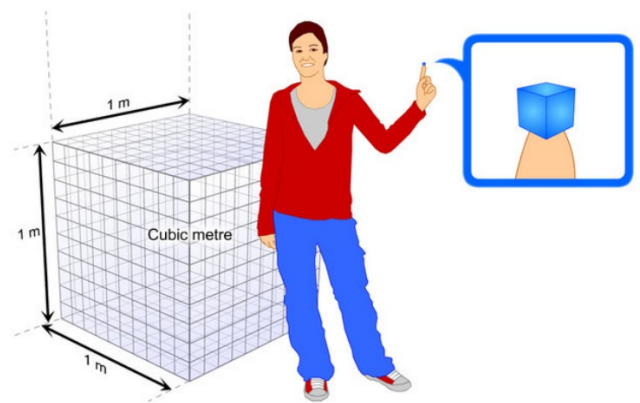
What information do you need to solve this problem?

Talk about it with your table

How many boxes fit in the trunk?



$$100 \text{ cm} = 1 \text{ m}$$



So....are we right? Was your guess close?

Please return your calculators; TAKE BOOKS WITH YOU  
Be sure your name is both in and ON your book in Sharpie!

Homework:

Finish reading "A Mathematician's Lament" Essay  
Be sure parent filled out survey at [mgeo.weebly.com](http://mgeo.weebly.com)  
Bring \$5 math fee or pay online