Which math course is best for me next year?
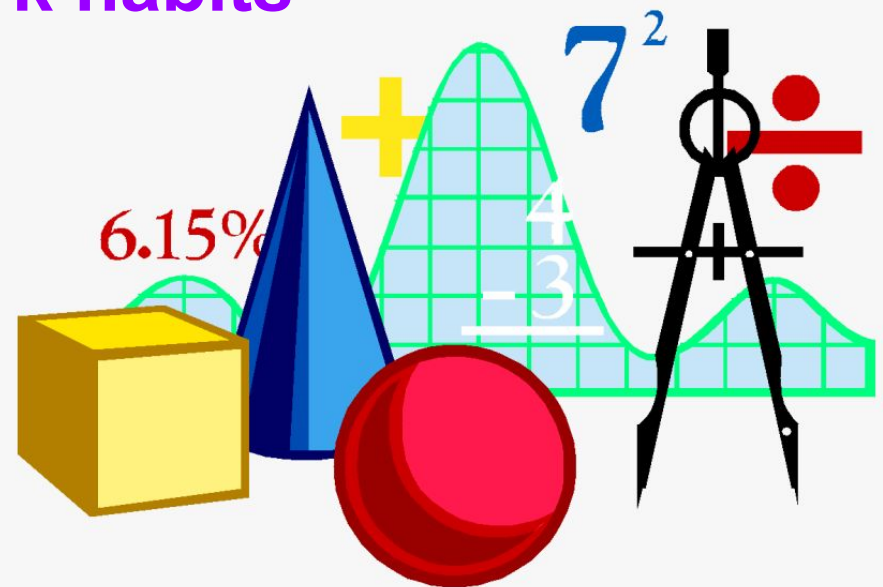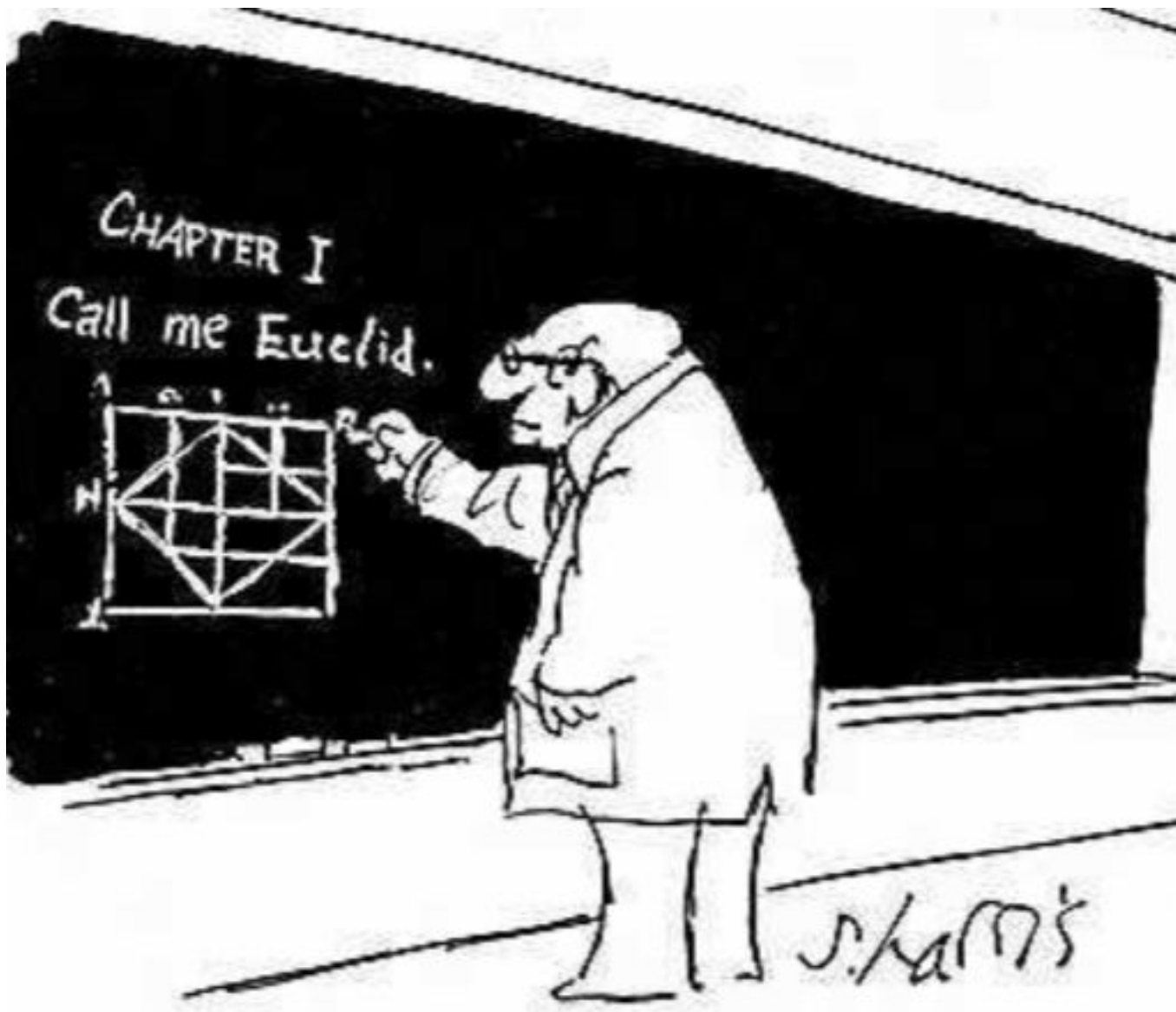
Geometry vs. Geometry Honors

Consider:

Content, Rigor, Pacing, and Work habits

What is Euclidean Geometry?

Here he is, The Father of Geometry, **Euclid**

"There is no royal road to geometry."

Organized theories and ideas by providing structure

Everything depends on precise definitions – common understanding of words and symbols.

Utilized clear, uniform, logical reasoning – no assumptions

330 – 275 B.C.

Units of Study:
- Geometry Basics
- Logic
- Parallel and Perpendicular lines
- Triangle Properties
- Triangle Congruence
- Triangle Similarity
- Right Triangles
- Polygons
- Circles
- Volume, 3-D Solids
- Transformations
- Constructions

What is the difference between an Honors and a Regular course?

Content:
- Additional content is included in honors classes
- Extensions of the concepts
- Deeper levels of understandings and connections between topics
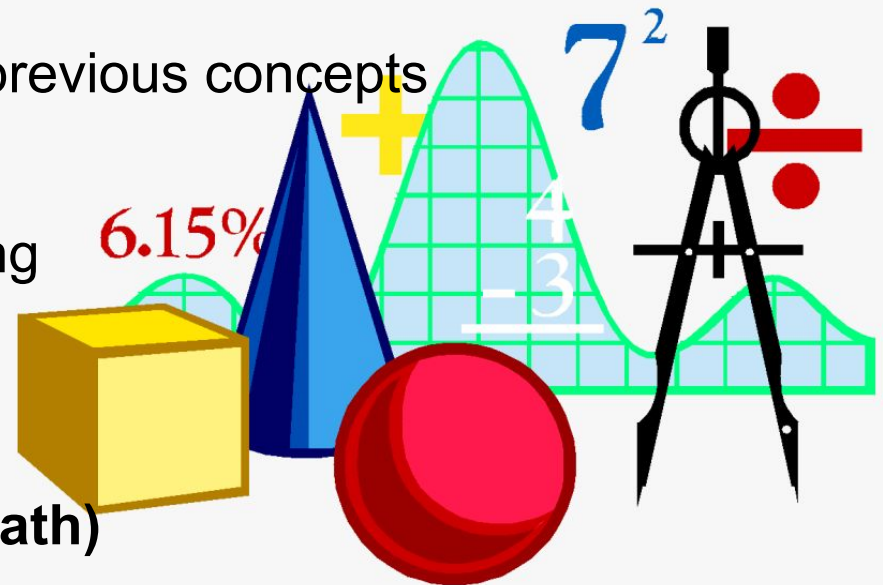
Rigor:
- More independent thought and discovery learning
- Application of concepts in complex new ways
- Challenging problems that require higher level of thought and study

Pacing:
- New content introduced each class.
- Less review and "circling back" to revisit previous concepts

Work habits:
- More responsibility on students for learning
- More study WILL be necessary

(In order to LEARN math we need to DO math)

What if I choose a course that's *too easy*?

Content:

- You might miss out on complex levels of content, applications and interesting extensions of the concepts.
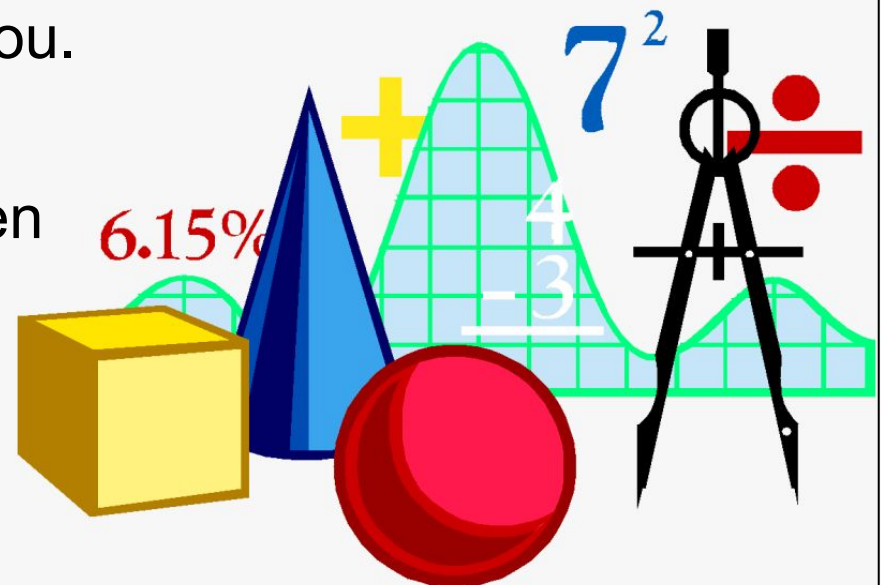
Rigor:

- You might want discussions that dig deeper into the "Why?" of math
- You might be frustrated with what the class is learning and ...
- You will feel bored!

Pacing:

- The class might feel like it drags for you.

Work habits:

- You might "check out" and maybe even end up doing worse in the class.

What if I choose a course that is *too hard*?

Content:
- Weaker prerequisite skills will make it difficult to learn new content.
- Dependence on retakes while learning new content increases workload.

Rigor:
- Levels of independent work and higher expectations may feel overwhelming for students.

Pacing:
- The class will move quickly through topics rather than allowing for review.
- Students that struggle to keep up with missed work need more time to complete assessments and assignments.

Work habits:
- Students in too difficult of a class may begin to doubt their math ability and lose confidence.
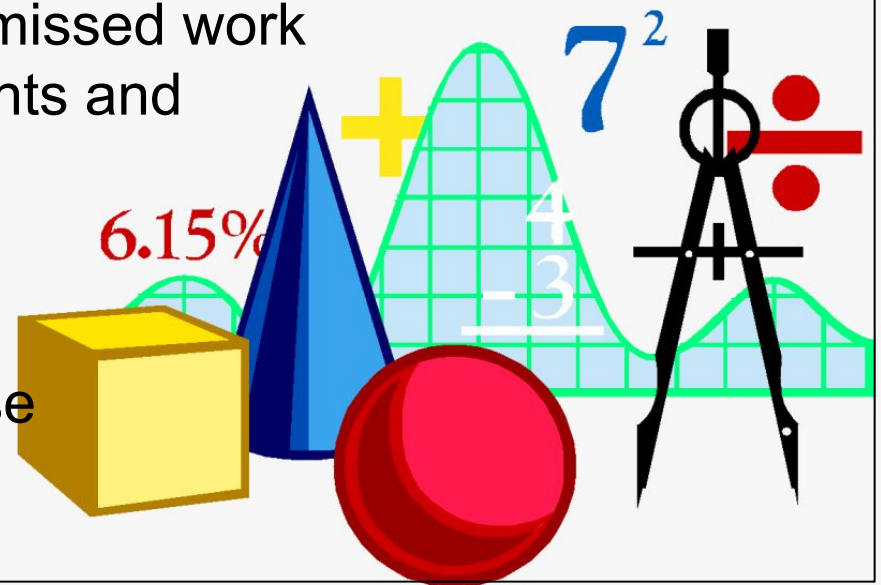
So which math course is best for me next year?

Are you ...

Content:
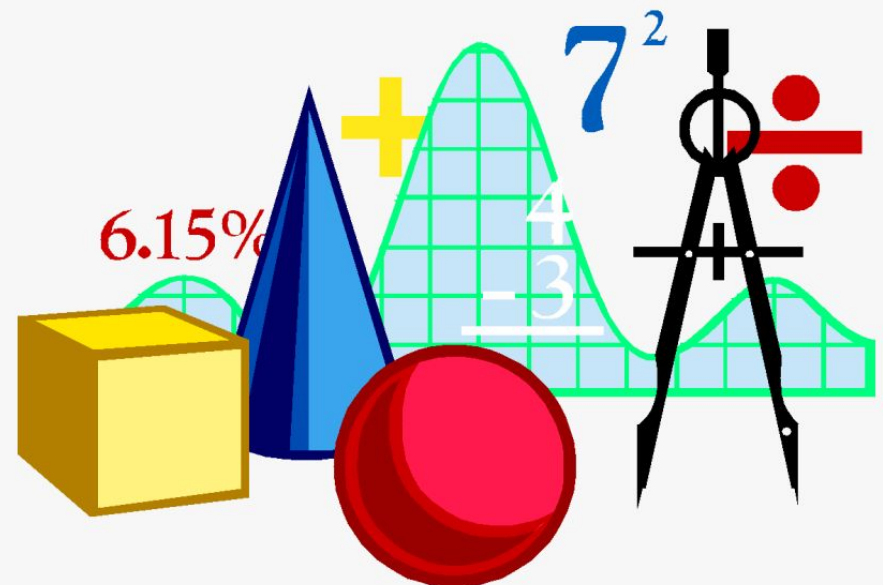- Excited about learning new things in math?

Rigor:
- Energized by complex challenges?
- Able to persevere and work to figure things out?

Pacing:
- Able to keep up with content and complete work on time?

Work habits:
- Organized?
- Responsible?
- Good at asking questions for learning?
- Willing to put in extra time and effort?
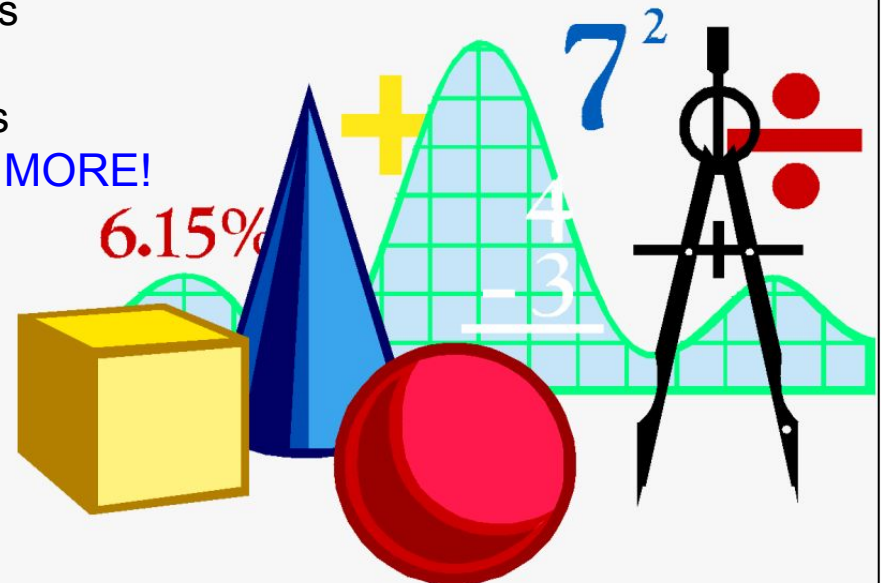
Which math course is best for me next year?

Geometry vs. Geometry Honors

Geometry Content:

- Geometry Basics
    - Point, Line, Plane Relationships
    - Definitions
- Logic and Reasoning
    - Deductive / Inductive Reasoning
    - Conditional Statements
    - Two column Proofs
- Parallel and Perpendicular Relationships
    - Lines and angles
- Properties of Triangles
- Triangle Congruence
- Triangle Similarity
- Right Triangles
- Polygons
    - Classification
    - Area
- Circles
    - Segment Relationships
    - Angle Relationships
- Solids
    - Volume
- Transformations
- Constructions

**Honors: Geometry Content** in addition to:

- Truth Tables
- Venn Diagrams with three sets
- Compound Statements with three sets
- Proofs:
    - Paragraph Proofs
    - Flow Proofs
    - Indirect Proofs
    - Coordinate Proofs
- Derivation of Distance Formula
- Geometric Probability
- Equations of circles, tangent lines, ellipses
- Measures of similar 3-D figures
- Matrices
- Vectors
- Fractals
- … and MORE!

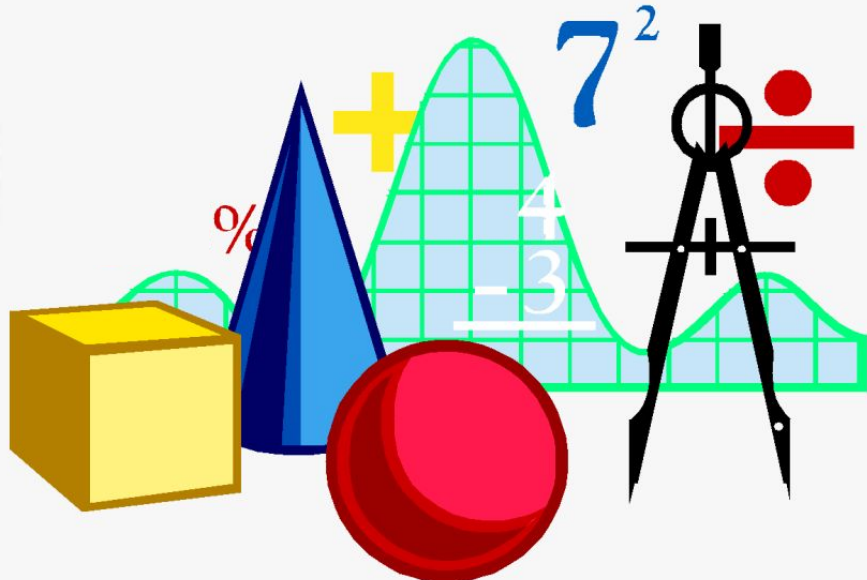# Which math course is best for me next year?

Geometry vs. Geometry Honors

It all comes down to ...
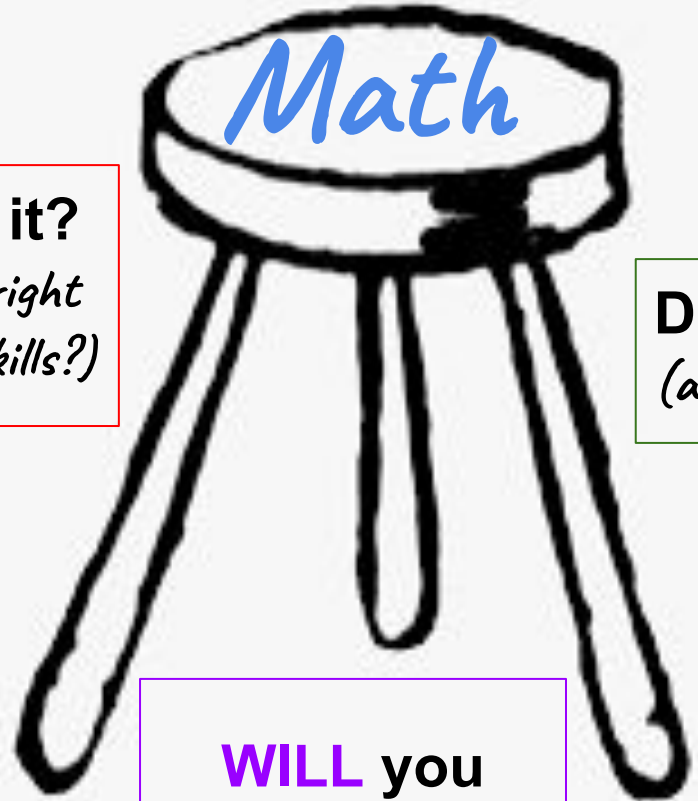
Math

CAN you do it?
(do you have the right set of academic skills?)

Do you WANT to do it?
(are you highly interested in learning math?)

WILL you do it?
(what kind of student are you?)

7^2

%

Go Hornets!