

Carnegie Geometry Volume & Surface Area Chapter 2

Key Q's

1. When do I use volume and when do I use surface area?
2. How do I 'undo' a formula to find a missing measure?
3. How do I calculate wasted space using geometric probability?
4. Can you estimate the volume of an irregular figure?

Concepts and Skills

Nets and Naming Surface Area (2-D)

- Use Formula Sheet!!!!
- Add each face's area
- Lateral Area is SA without Bases

Volume (3-D)

- Use Formula Sheet!!!!
- B is area of base — 2-D measure

3-D Figures

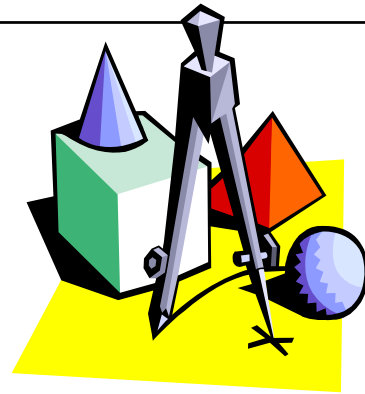
- Prism-Pyramid-Polygon base
- Cylinder-Cone-Circle base
- Prism & Cylinder: 2 // bases
- Pyramid & Cone: 1 base & vertex
- Sphere — spin around a circle

Composite Figures

- Use Formula Sheet!!!!
- Altitude is Height
- Add volumes
- Add faces — don't double-count

Geometric Probability

- Target length / Total length



Review

- ◆ Slope
- ◆ Definition of trapezoid
- ◆ Ratios



