All (CP) Geometry

Quarter 4 - Pickup with section 11.4
April 2 -5, 2024

Outline for Week April 2-5

Monday - No school

Tuesday -   **REVIEW** BIM 11.4/11.5   Day B Club Tutoring available

Wednesday -   11.6 Notes & Practice on Volume Pyramids   Day A Homeroom Tutoring available

Thursday -   11.7 Notes & Practice on Volume Cones   (rest of section on surface area to wait till later)

Friday -   11.8 Notes & Practice on Volume Sphere   (rest of section on surface area to wait till later)

Next Week - Tuesday - mostly likely will be the TEST on VOLUME

11.4 Highlights on Terminology and Nets of solids
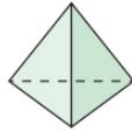
Three-Dimensional Figures

1	2	4	6	8	10
12	14	16	18	19	20
25	26	27	28	29	30
37	38	39			

Your friend says that the polyhedron shown is a triangular prism. Your cousin says that it is a triangular pyramid.

○ Your friend because the four faces are congruent, so it is a prism.

○ Your friend because there are two parallel, congruent bases, so it is a prism.

○ Your cousin because there are 4 faces in total, so it is a pyramid.

○ Your cousin because the sides come together at a point, so it is a pyramid.

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Is it possible for a cross section of a cube to be a pentagon?

○ Yes, if the plane passes through five faces of the cube.

○ Yes, if the plane lies parallel to one of the faces of the cube.

○ Yes, if the plane lies perpendicular to two of the faces of the cube.

○ No, it is not possible.

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Notes & Examples:

Student Journal

pgs 332-333

11.5 Highlights on Solid Volume with <mark>V=Bh</mark> style
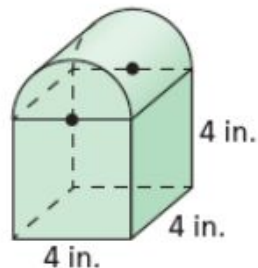
Notes & Examples:

Student Journal

pgs 337-338

Exercise 30

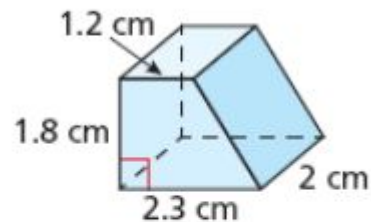Find the volume of the composite solid. Round your answer

4 in.

4 in.

4 in.

The volume is about [1][   ] cubic inches.

Correct answers:

[1] 89.13

Exercise 3

Find the volume of the prism.

1.2 cm

1.8 cm

2.3 cm

2 cm

The volume is [1][   ] cubic ce

Correct answers:

[1] 6.3

11.5 Review

Exercise 37

An aquarium shaped like a rectangular prism has a length of 30 inches, a width of 10 inches, and a height of 20 inches. You fill the aquarium $\frac{3}{4}$ full with water. When you submer
rock in the aquarium, the water level rises 0.25 inch.

a. Find the volume of the rock.

The volume of the rock is 1 ⬚ cubic inches.

b. How many rocks of this size can you place in the aquarium before water spills out?

You can place 2 ⬚ rocks.

Correct answers:

1	75	2	20

11.6 Volume of Pyramids

Notes & Examples: Student Journal pg 342

Online 11.6 Assignment --- show work/formulas used

11.7 Volume of Cones (not Surface Area part yet)

Notes & Examples: Student Journal pg 348 #3, 4 ,6-8

Online 11.7 Assignment --- show work/formulas used

11.8 Volume of Sphere (not Surface Area part yet)

Notes & Examples: Student Journal pg 352-353 #5-8

Online 11.8 Assignment --- show work/formulas used