

4/3/17 CCM6+

Review Volume (find it, composite, missing dimensions, fractional dimensions and fractional cubes) and 3D shapes/parts/nets for the QUIZ Tomorrow.

1. Agenda...HW is study for QUIZ tomorrow
2. NO HW to check. NO warm-ups this week.

NO CALCULATORS today.

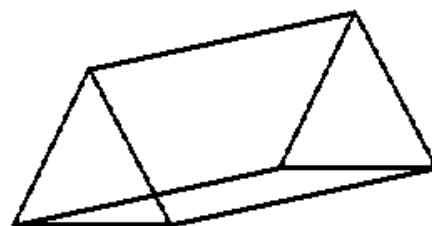
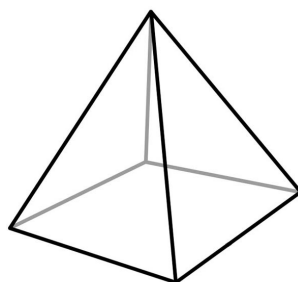
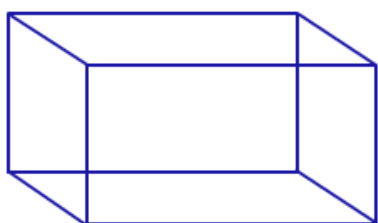
Turn to a partner and explain the difference between a...

Triangular Prism

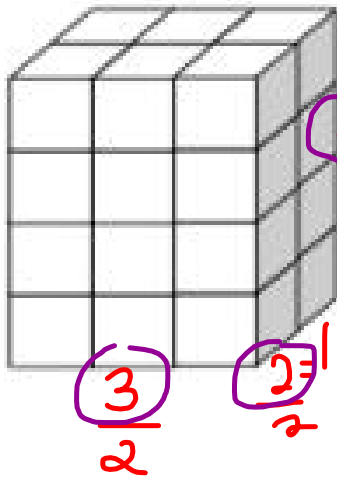
and a

Triangular Pyramid

1. Name that shape.
2. Tell # of faces, edges, vertices.
3. What would the net look like?



Volume with fractional cubes



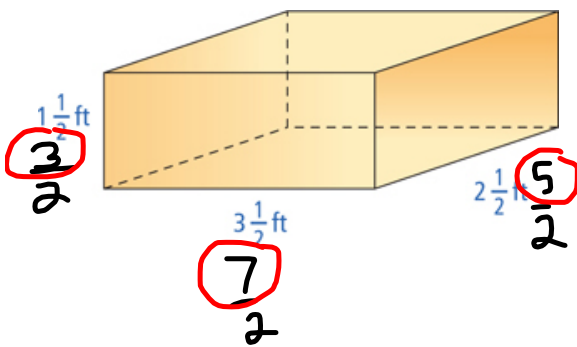
If each cube has a dimension of $\frac{1}{2}$ cm, what is the volume?

$$\frac{3}{2} \cdot 1 \cdot \frac{2}{1} = \frac{3}{1} = 3 \text{ cm}^3$$

How many $\frac{1}{2}$ cm cubes fit inside the prism?

24 Cubes

Volume with fractional cubes...again



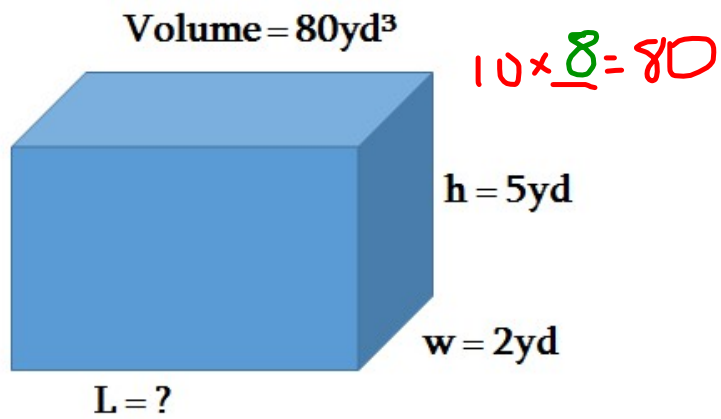
What is the Volume of this prism? (NO CALC)

$$\frac{3}{2} \times \frac{7}{2} \times \frac{5}{2} = \frac{105}{8}$$

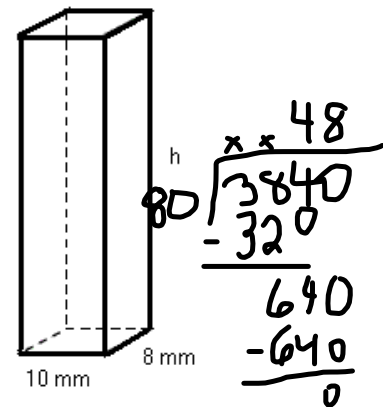
How many cubes with $\frac{1}{2}$ edge length fit inside?

$$3 \cdot 7 \cdot 5 = 105$$

Find Missing Dimension $80 \times \underline{48} = 3840$

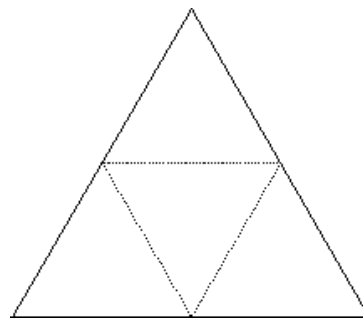
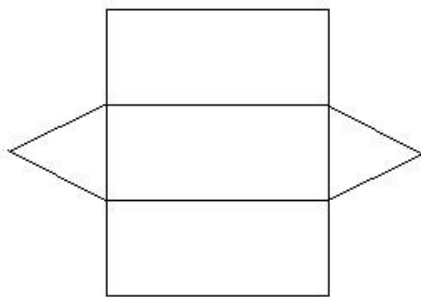
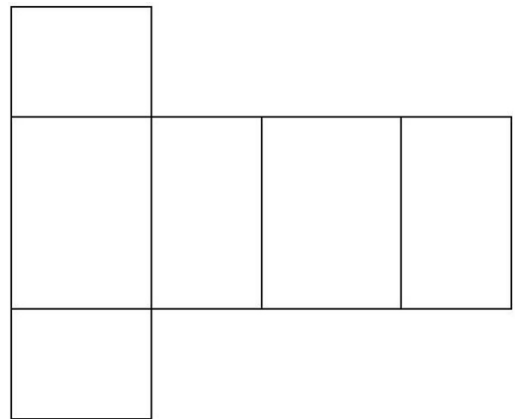
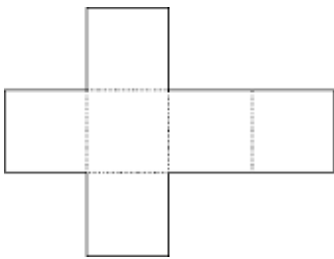


Volume = 3840 mm^3

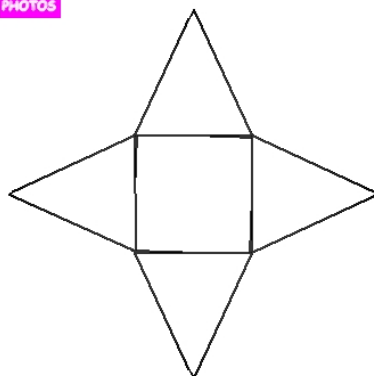


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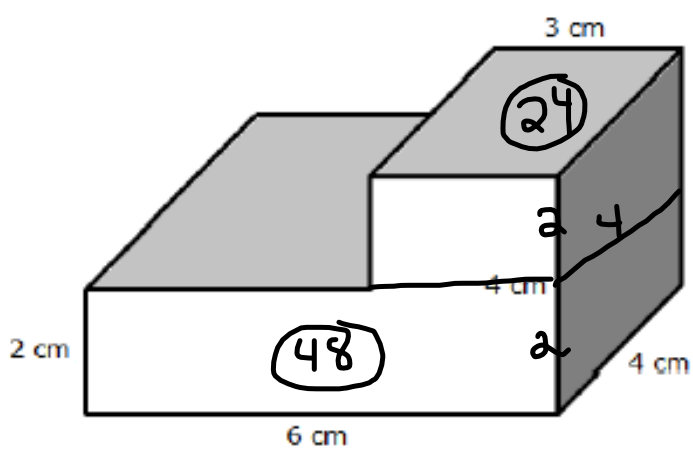
This is the net...Name the shape



PHOTOS



Find the Volume.



$$V = 72 \text{ cm}^3$$

A rectangular prism has dimensions
 $3 \times 2\frac{1}{4} \times 1\frac{1}{4}$.

1) What is the volume? $\frac{3}{1} \times \frac{9}{4} \times \frac{5}{4} = \frac{135}{16}$

2) How many $\frac{1}{4}$ cubes fit inside?

$$\frac{12}{4} \times \frac{9}{4} \times \frac{5}{4} = 540$$

QUIZ tomorrow....what else would **you**
like to review?