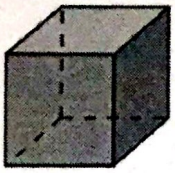
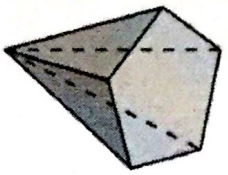
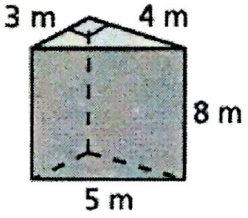
Center #1 – Find the number of faces, edges, and vertices of the solid.

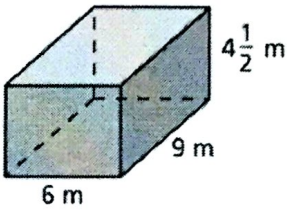
1. 

2. 

Draw a square pyramid and hexagonal pyramid.

Center #2 – Find the surface area of the prisms.



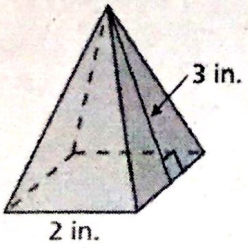


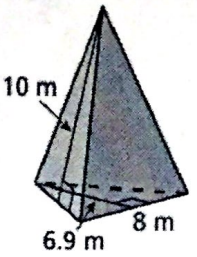
Center #3

You want to put wrapping paper on the outside of a shoebox with no lid. The length is 15 in., width is 8 in., height is 5 in. How much wrapping paper do you need?

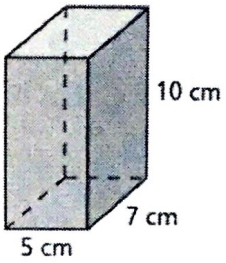
A room has a length of 12 feet, width of 10 feet, and a height of 8 feet. How much would it cost to cover all the side walls with wallpaper if the wallpaper costs $2.00 per square foot?

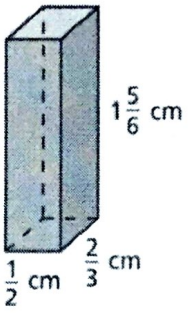
Center #4 – Find the surface area of the pyramids. The side lengths of the base are equal.





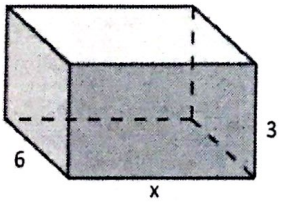
Center #5 – Find the volume of the prism.





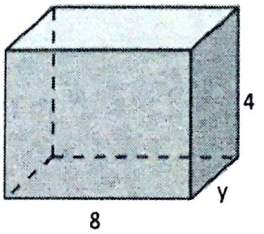
Center #6 – Write and solve an equation to find the missing dimension of the prism.

Volume = 90 ft^3



Equation: _____

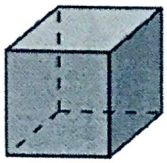
Volume = 48 cm^3



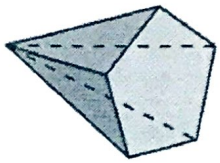
Equation: _____

Math 6 Ch 8 (384 #1-12 all)

Center #1 – Find the number of faces, edges, and vertices of the solid.

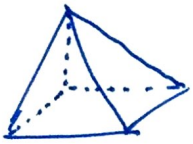
1. 

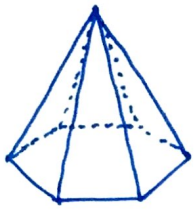
Faces - 6
Edges - 12
Vertices - 8

2. 

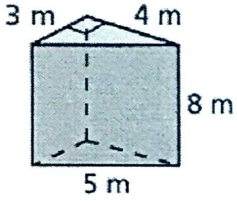
Faces - 6
Edges - 10
Vertices - 6

Draw a square pyramid and hexagonal pyramid.

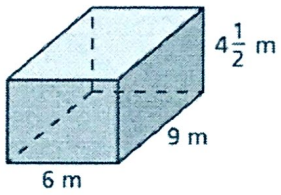




Center #2 – Find the surface area of the prisms.



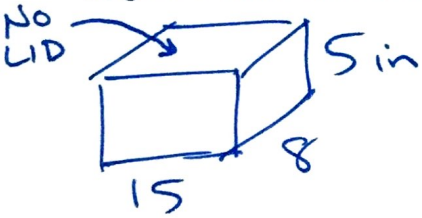
T$B: 3×4 = 12
Front: 5×8 = 40
Back Rt: 8×4 = 32
Back Lt: 8×3 = 24
108 m²



F$B: 6×4½ = 27×2 = 54
T$B: 6×9 = 54×2 = 108
Sides: 9×4½ = 40.5×2 = 81
243 m²

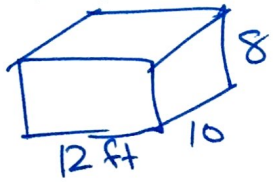
Center #3

You want to put wrapping paper on the outside of a shoebox with no lid. The length is 15 in., width is 8 in., height is 5 in. How much wrapping paper do you need?



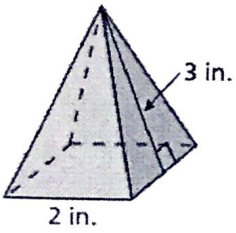
F$B: 15×5 = 75×2 = 150
Sides: 8×5 = 40×2 = 80
Bottom: 15×8 = 120
350 in²

A room has a length of 12 feet, width of 10 feet, and a height of 8 feet. How much would it cost to cover all the side walls with wallpaper if the wallpaper costs $2.00 per square foot?



F$B: 12×8 = 96×2 = 192
Sides: 10×8 = 80×2 = 160
352 ft²
×$2
$704

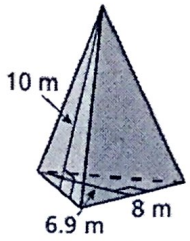
Center #4 – Find the surface area of the pyramids. The side lengths of the base are equal.



Base: $2 \times 2 = 4$

Sides: $2 \times 3 = 6 \div 2 = 3$, $\times 4$, 12

$4 + 12 = 16\ in^2$

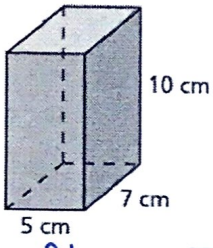


Base: $6.9 \times 8 = 55.2 \div 2 = 27.6$

Sides: $8 \times 10 = 80 \div 2 = 40$, $\times 3$, 120

$27.6 + 120 = 147.6\ m^2$

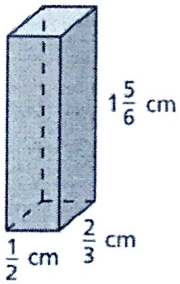
Center #5 – Find the volume of the prism.



1st floor: $5 \times 7 = 35$

# of floors $\longrightarrow \times 10$

$350\ cm^3$

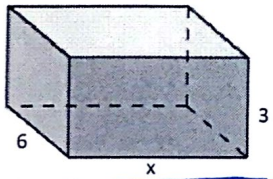


$\frac{1}{2} \times \frac{2}{3} \times 1\frac{5}{6}$

$\frac{1}{2} \times \frac{2}{3} \times \frac{11}{6} = \frac{11}{18}\ cm^3$

Center #6 – Write and solve an equation to find the missing dimension of the prism.

Volume = 90 ft^3



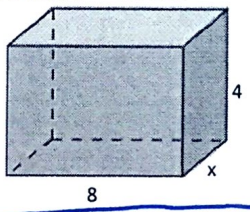
Equation

$6 \cdot x \cdot 3 = 90$

$\frac{18 \cdot x}{18} = \frac{90}{18}$

$x = 5\ ft$

Volume = 48 cm^3



$8 \cdot 4 \cdot x = 48$

$\frac{32 \cdot x}{32} = \frac{48}{32}$

$x = 1\frac{16}{32} = 1\frac{1}{2}\ cm$