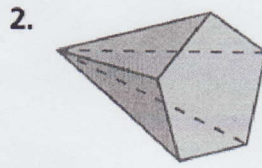
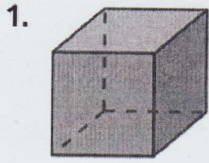
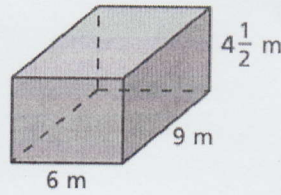
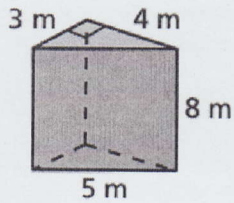


Center #1 – Find the number of faces, edges, and vertices of the solid.



Draw a square pyramid and hexagonal pyramid.

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

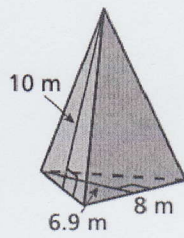
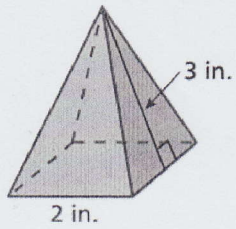


Center #3

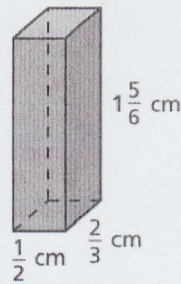
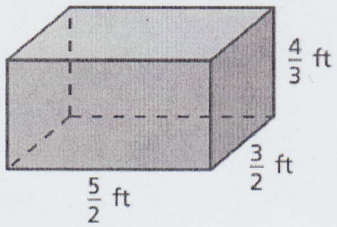
You want to put wrapping paper on the outside of a shoebox with no lid. The length is 15 in., width is 8 in., height is 5 in. How much wrapping paper do you need?

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 walls with wallpaper if the wallpaper costs \$2.50 per square foot?

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



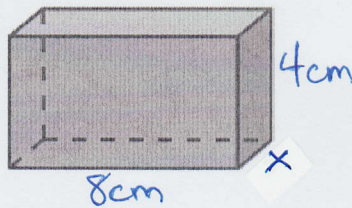
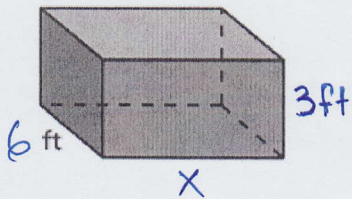
Center #5 – Find the volume of the prism.



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

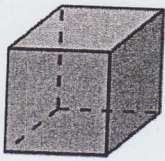
Volume = 90 ft.^3

Volume = 48 cm.^3



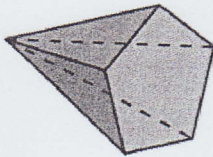
Center #1 - Find the number of faces, edges, and vertices of the solid.

1.



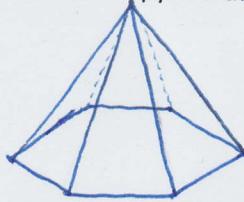
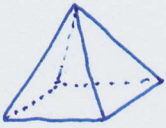
Faces - 6
Edges - 12
Vertices - 8

2.

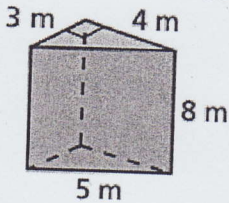


Faces - 5
Edges - 12
Vertices - 5

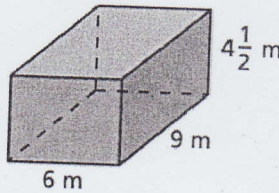
Draw a square pyramid and hexagonal pyramid.



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



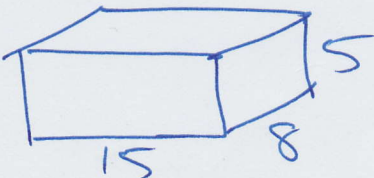
$$\begin{aligned} T\&B &= 3 \times 4 &= 12 \\ \text{Front} &= 5 \times 8 &= 40 \\ \text{Back Rt} &= 8 \times 4 &= 32 \\ \text{Back Lt} &= 3 \times 8 &= 24 \\ \hline &&108 \text{ m}^2 \end{aligned}$$



$$\begin{aligned} F\&B &: 6 \times 4\frac{1}{2} = 27 \times 2 = 54 \\ T\&B &: 6 \times 9 = 54 \times 2 = 108 \\ \text{Sides} &: 9 \times 4\frac{1}{2} = 40.5 \times 2 = 81 \\ \hline &&243 \text{ m}^2 \end{aligned}$$

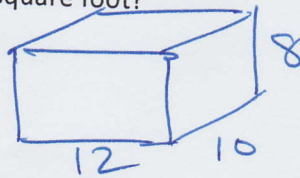
Center #3

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?



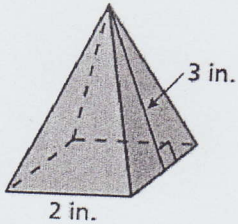
$$\begin{aligned} F\&B &: 15 \times 5 = 75 \times 2 = 150 \\ \text{Sides} &: 8 \times 5 = 40 \times 2 = 80 \\ \text{Bottom} &: 15 \times 8 = 120 \\ \hline &&350 \text{ in}^2 \end{aligned}$$

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 walls with wallpaper if the wallpaper costs \$2.50 per square foot?

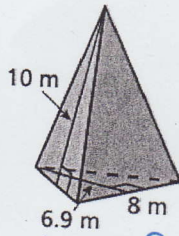


$$\begin{aligned} F\&B &= 12 \times 8 = 96 \times 2 = 192 \\ \text{Sides} &= 10 \times 8 = 80 \times 2 = 160 \\ \hline &&352 \text{ ft}^2 \\ &&\times 2.50 \\ \hline &&\$880 \end{aligned}$$

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

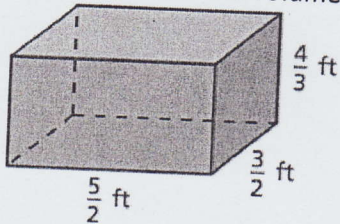


$$\begin{aligned} \text{Lateral face: } & 2 \times 3 = 6 \times 2 = 12 \\ \text{Base } & 2 \times 2 = 4 \rightarrow 4 \\ & \hline & 16 \text{ in}^2 \end{aligned}$$

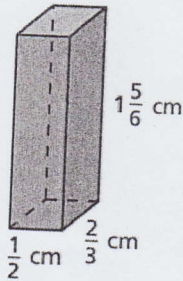


$$\begin{aligned} \text{Lateral face - } & 8 \times 10 = 80 \div 2 = 40 \\ & \times 3 \\ & \hline & 120 \\ \text{Base - } & 6.9 \times 8 = 55.2 \div 2 = \\ & \hline & 27.6 \\ & \hline & 147.6 \text{ m}^2 \end{aligned}$$

Center #5 - Find the volume of the prism.



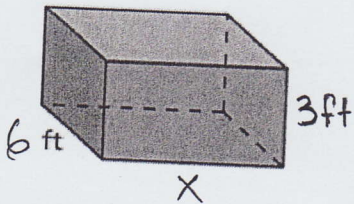
$$\frac{5}{2} \times \frac{3}{2} \times \frac{4}{3} = \frac{10}{2} = 5 \text{ ft}^3$$



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

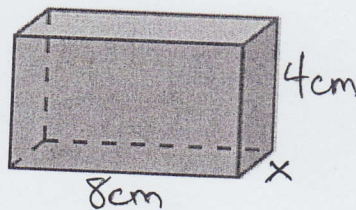
Center #6 - Write and solve an equation to find the missing dimension of the prism.

Volume = 90 ft^3



$$\begin{aligned} 6 \cdot 3 \cdot x &= 90 \\ 18x &= 90 \\ \frac{18x}{18} &= \frac{90}{18} \\ x &= 5 \text{ ft} \end{aligned}$$

Volume = 48 cm^3



$$\begin{aligned} 8 \cdot 4 \cdot x &= 48 \\ 32x &= 48 \\ \frac{32x}{32} &= \frac{48}{32} \\ x &= 1.5 \text{ cm} \end{aligned}$$