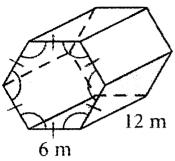
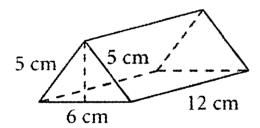
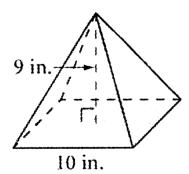
1. Find the surface area of the regular hexagonal prism to the *nearest tenth*. The base has an apothem of $3\sqrt{3}$.



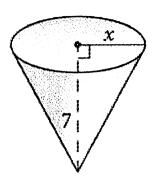
2. Find the Volume of the triangular prism to the *nearest tenth*.



3. Find the Lateral Area of the square pyramid to the nearest tenth.



4. The volume of the cone pictured below has a Volume of 112π . If the height of the come is 7, find the radius of the base, x, in simplest radical form.

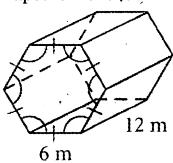


5. A cylindrical carton of oatmeal with radius 3.5 in. is 9 in. tall. If all surfaces except the top are made of cardboard, how much cardboard is used to make the oatmeal carton? Round your answer to the *nearest square inch*.

6. Find the volume of a sphere whose Great Circle has a circumference of 10π to the nearest tenth.

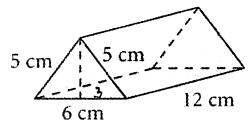
TSA= 619. Lm2

1. Find the surface area of the regular hexagonal prism to the nearest tenth. The base has an apothem of $3\sqrt{3}$.



Boses =
$$\frac{1}{2}ap$$
 [TSA= 619]
= $\frac{1}{2}(3\sqrt{3})(36)$
= 93.5 m² x2=187.1 m²

2. Find the Volume of the triangular prism to the nearest tenth.

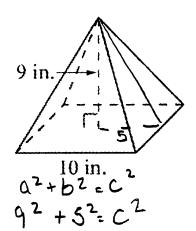


$$V = (Area base) H$$

= $\frac{1}{2}(4)(6)(12)$
 $\left[= 144 \text{ cm}^3 \right]$

$$a^{2} + b^{2} = c^{2}$$
 $3^{2} + b^{2} = 5^{2}$
 $9 + b^{2} = 25$
 $b^{2} = 16$
 $b = 4$

3. Find the Lateral Area of the square pyramid to the nearest tenth.



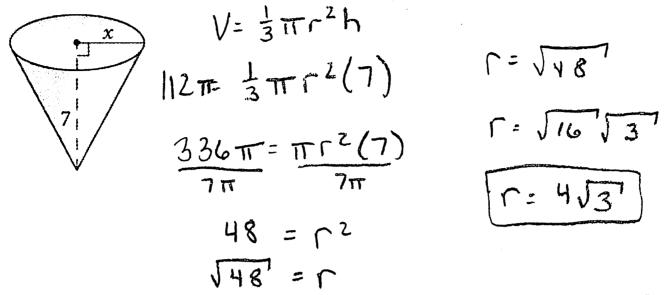
106= C2 l= C= 5106

$$LA = \frac{1}{2}b \cdot h \cdot 4A^{3}$$

$$= \frac{1}{2}(10)(\sqrt{100})(4)$$

$$= 205.9 \cdot n^{2}$$

- 4. The volume of the cone pictured below has a Volume of 112π . If the height of the come is
- 7, find the radius of the base, x, in simplest radical form.



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6. Find the volume of a sphere whose Great Circle has a circumference of 10π to the nearest tenth.

$$C = 2\pi\Gamma$$
 $V = \frac{4}{3}\pi\Gamma^{3}$
 $10\pi = 2\pi\Gamma$
 $V = \frac{4}{3}\pi(5)^{3}$
 $V = 523.6$