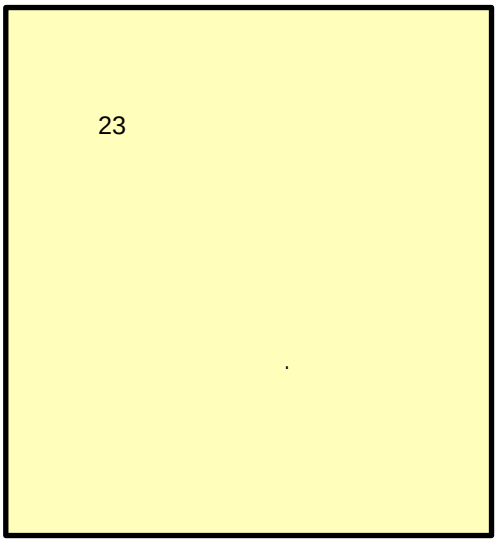
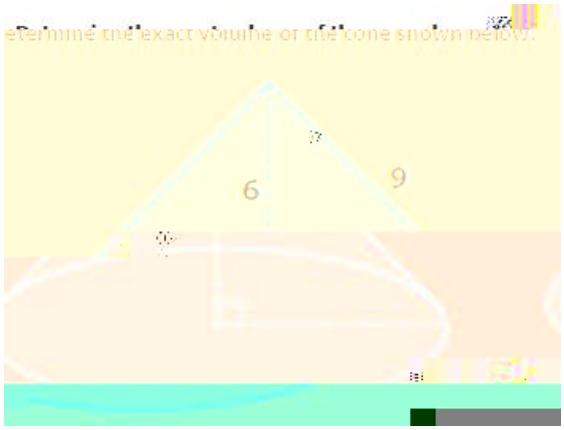

23



Let r be the radius of the base.

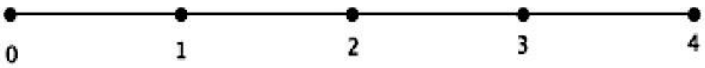
$$6^2 + r^2 = 9^2$$
$$36 + r^2 = 81$$
$$r^2 = 45$$

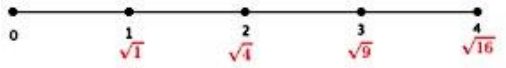
The area of the base is 45π.

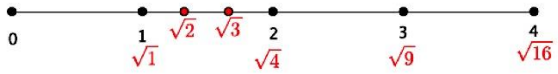
$$V = \frac{1}{3}Bh$$
$$V = \frac{1}{3}45\pi(6)$$
$$V = 90\pi$$

$\sqrt{1}$ $\sqrt{4}$ $\sqrt{9}$ $\sqrt{16}$ $\sqrt{2}$ $\sqrt{3}$

.



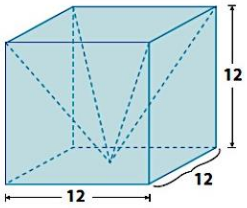




Solutions are shown be[illegible] along on the number l[illegible] between $\sqrt{1}$ and $\sqrt{4}$. They could be more specific by saying that if you divide the segment between integers 1 a[illegible] into three equal parts, then $\sqrt{2}$[illegible]

1 Write a[illegible] Explain what each part of your expression is.

2 What is the volume of the prism shown above with the pyramid portion removed?



$$12^3 - \frac{1}{3}(12^3)$$

The expression 12^3 is the volume of the cube and $\frac{1}{3}(12^3)$[illegible]

The volume of the prism is

$$V = [illegible]$$
$$= 1,728$$

The volume of the pyramid is

$$V = \frac{1}{3}(1,728)$$
$$= 576$$

The volume of the p[illegible] the pyramid removed is $1,152$ units^3.