

北师大版六年级数学下册

# 圆锥的体积

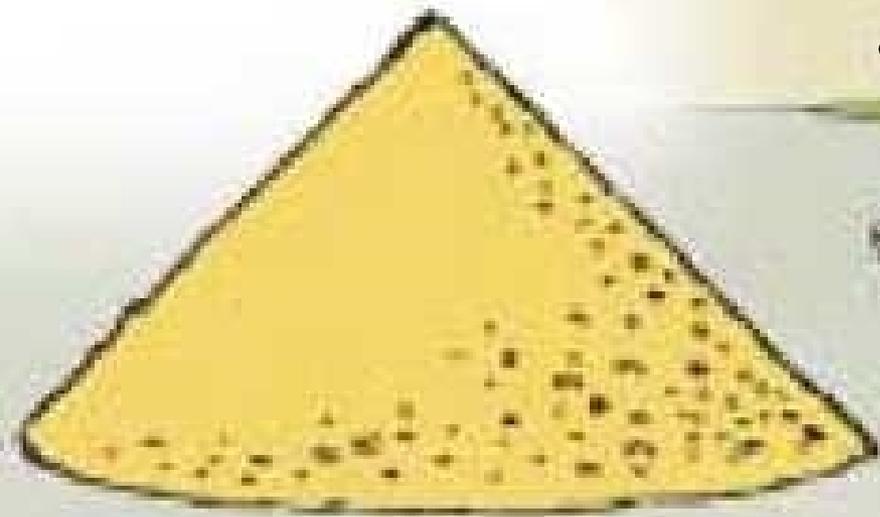


# 教学目标

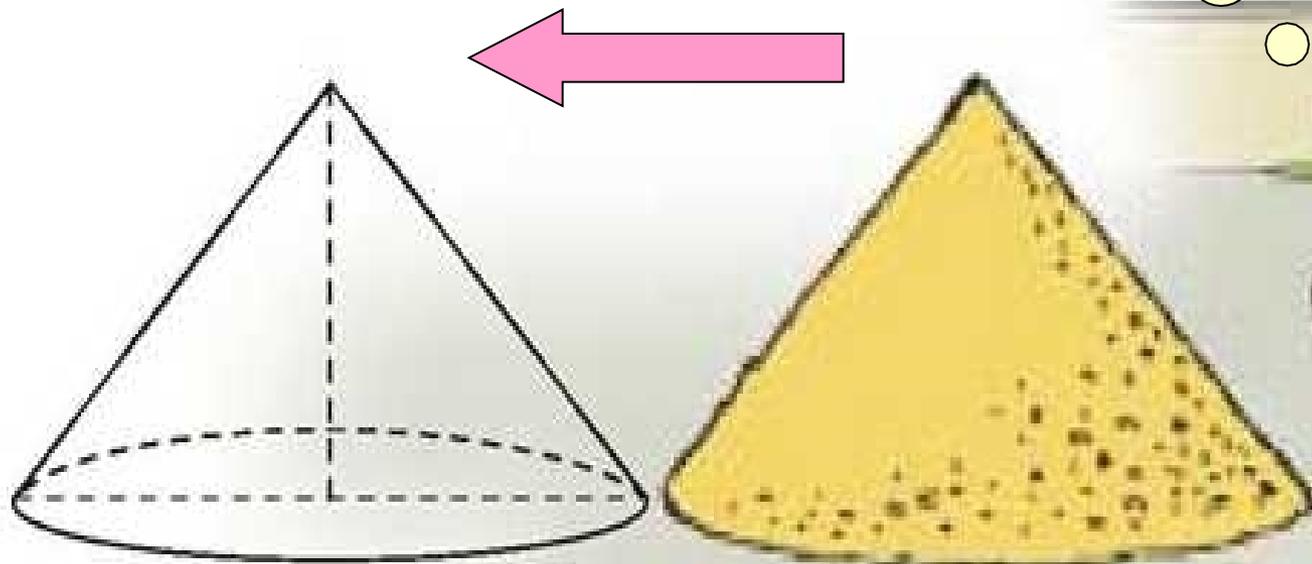
- 1.使同学们初步掌握圆锥体积的计算公式，并能运用公式正确地进行计算。
- 2.能熟练解答有关圆锥体体积的实际问题，提高同学们解答实际问题的能力。



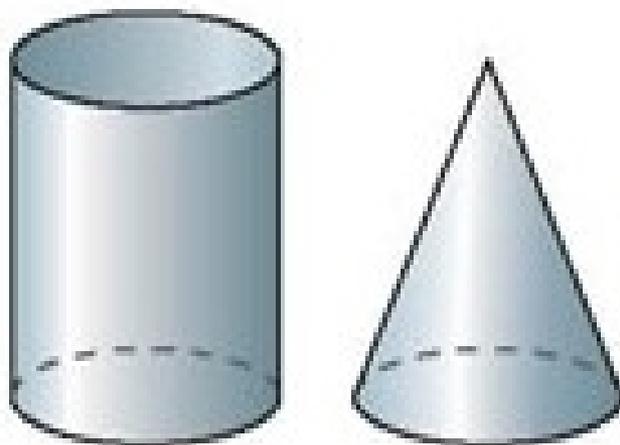
这堆小麦的体  
积是多少呢？



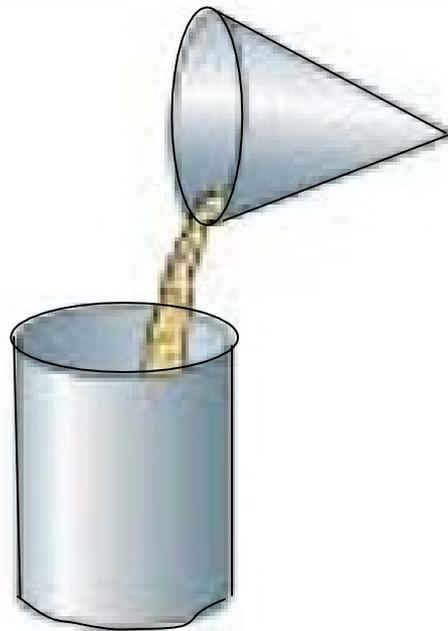
圆锥的体积  
怎么求呢？

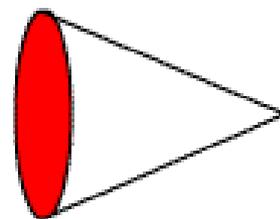
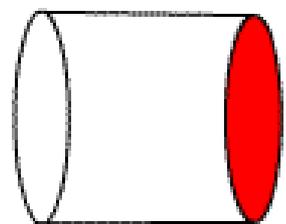


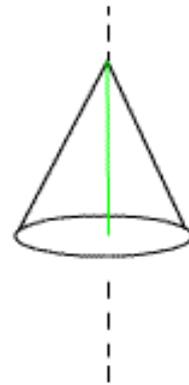
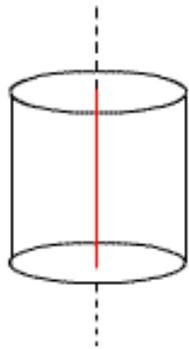
准备等底等高的圆柱形容器和圆锥形容器各一个。



将圆锥形容器装满沙,再倒入圆柱形容器,看几次能倒满。

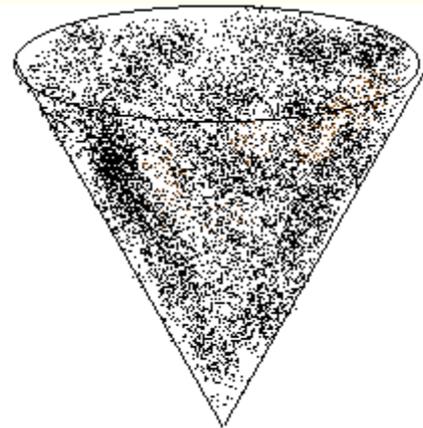
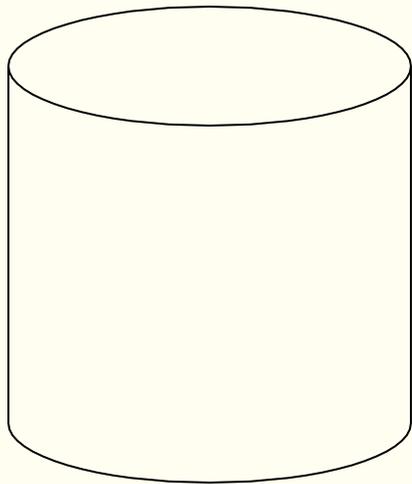


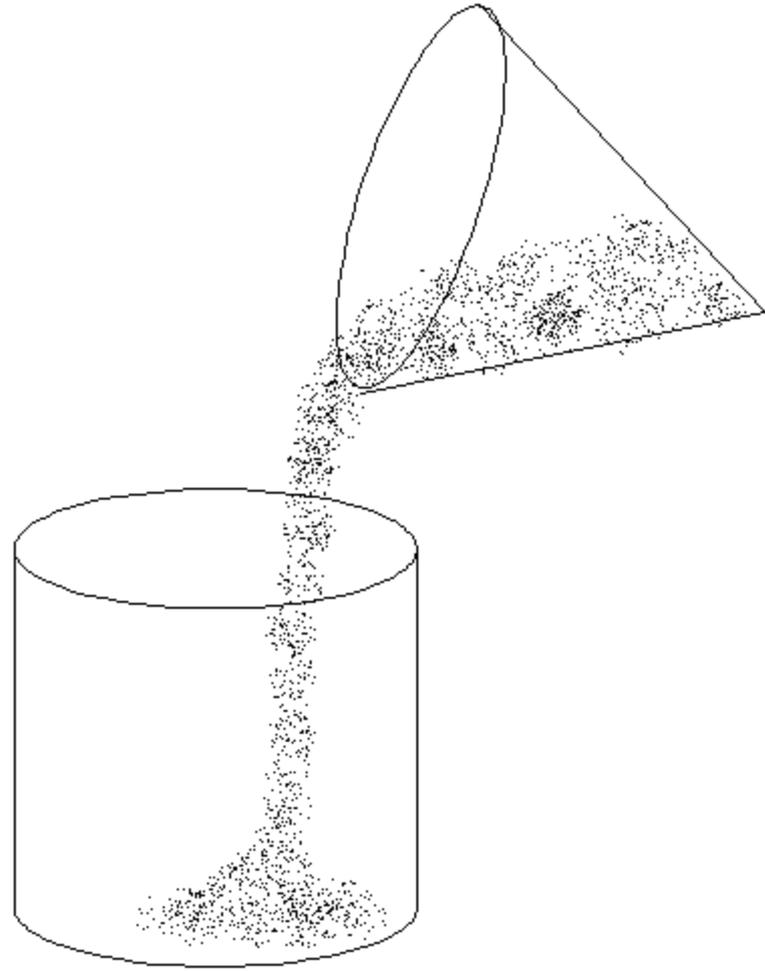


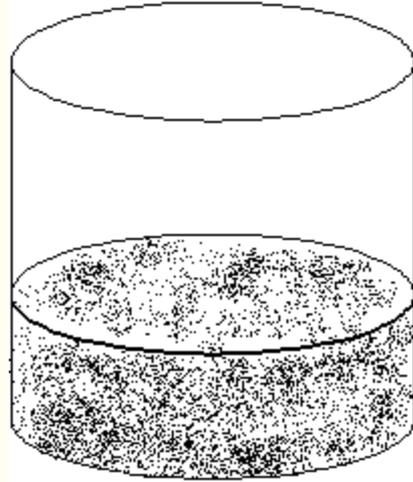
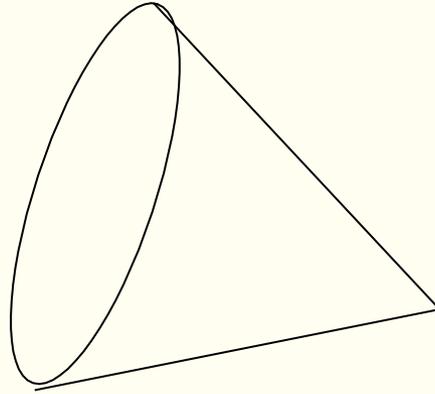


现在我们把他们放大后再  
来做实验：

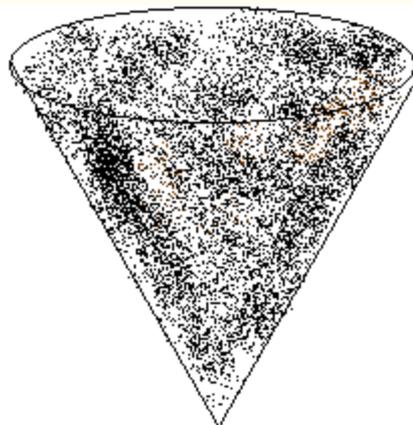
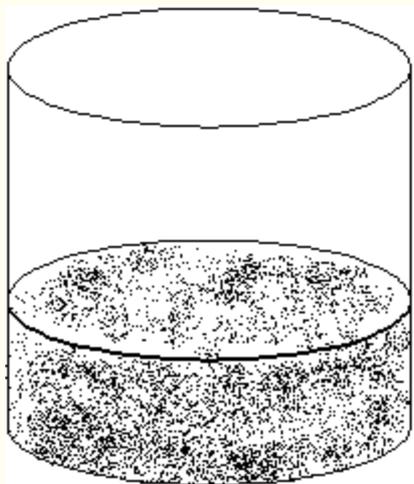
第一次

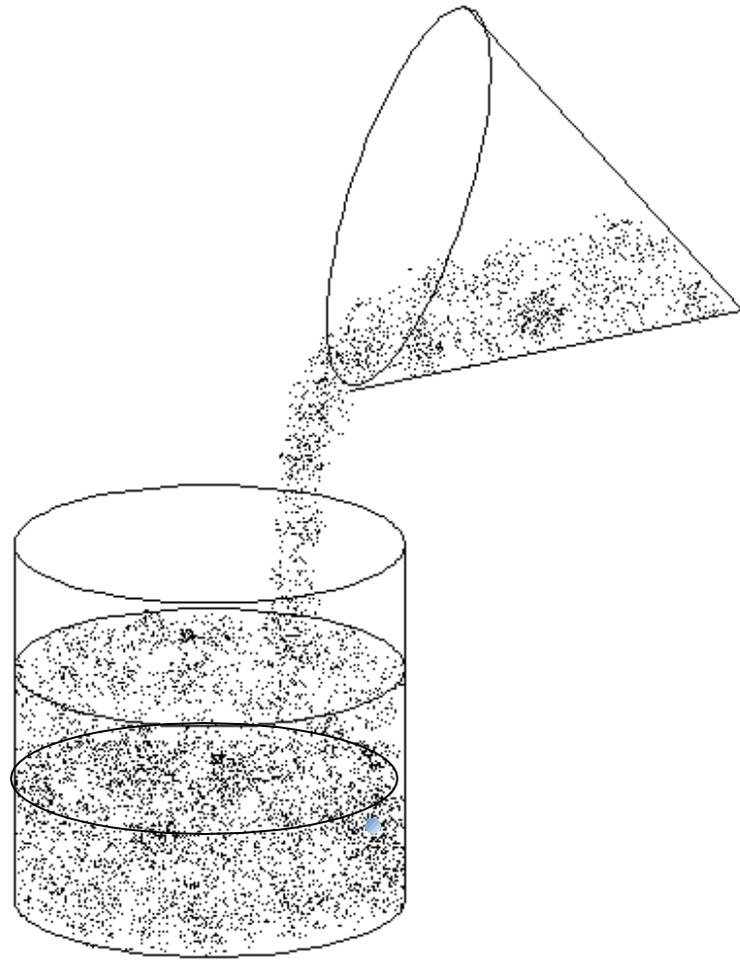


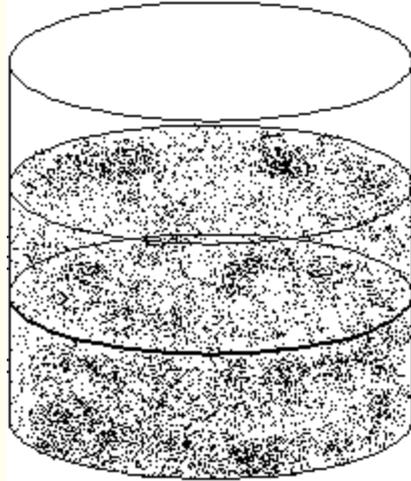
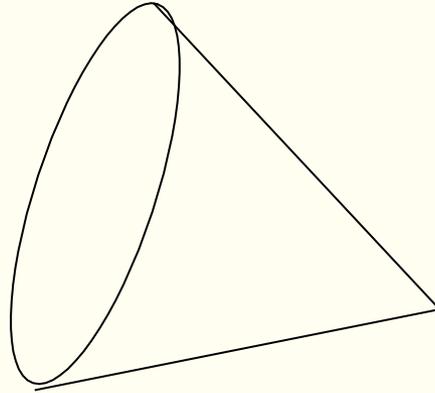




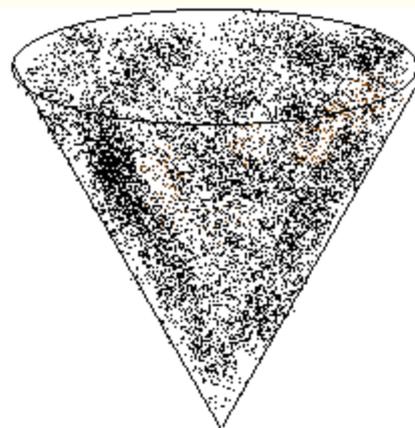
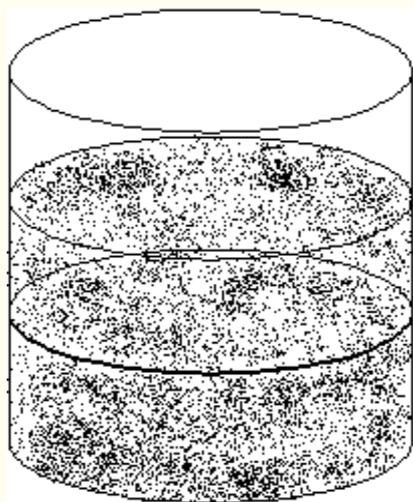
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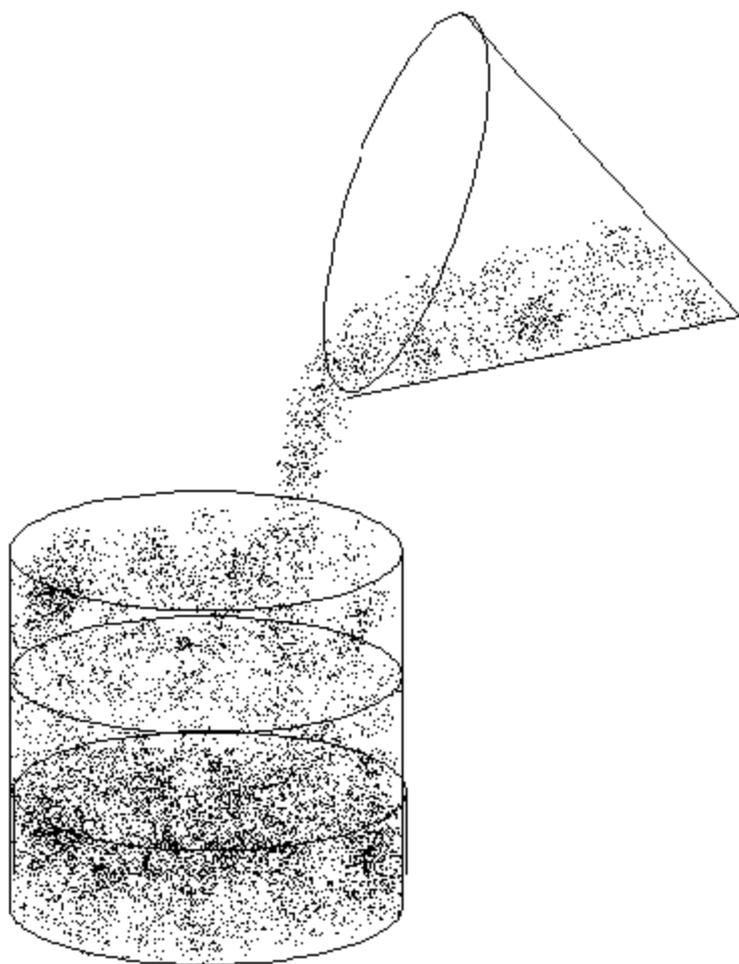


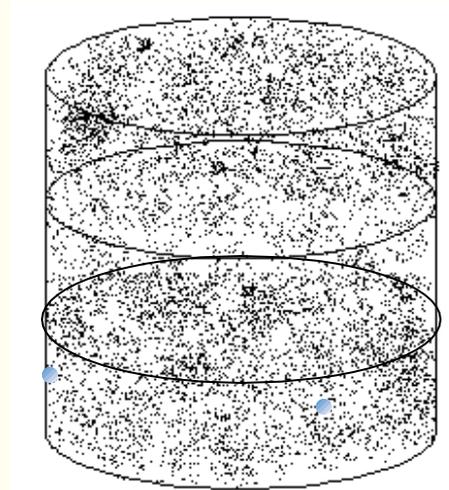
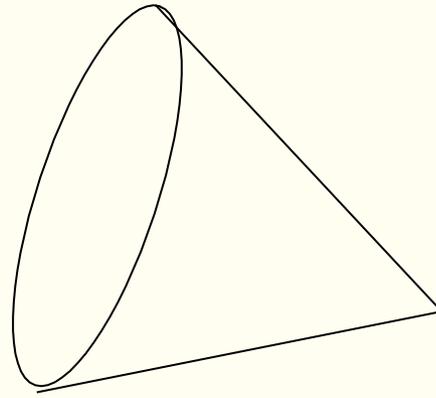




# 第三次







你发现了什么？

圆柱的体积是与它等底  
等高圆锥体积的3倍。



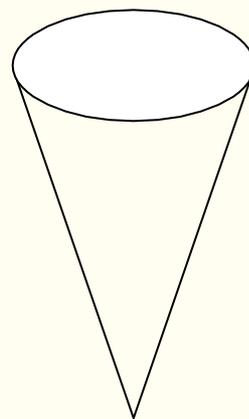
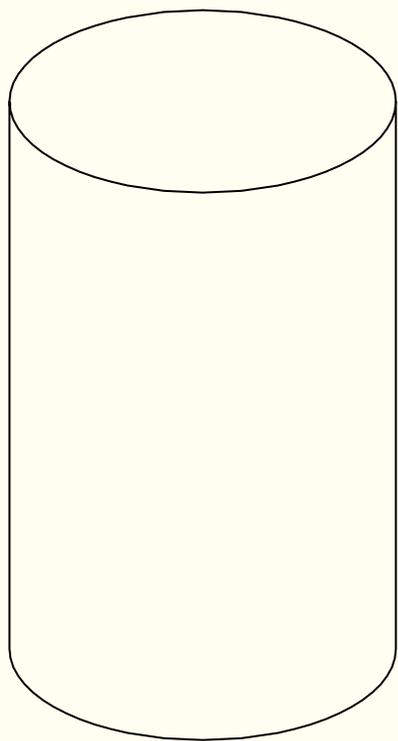
圆锥的体积V等于和它等底等高的  
圆柱体积的三分之一



$$V_{\text{圆柱}} = sh$$

$$V = \frac{1}{3}sh$$

这里也有一个圆锥体和一个圆柱体，请仔细观察一下：



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