

# 第四章 图形认识初步

## 4.1.1 立体图形的展开图

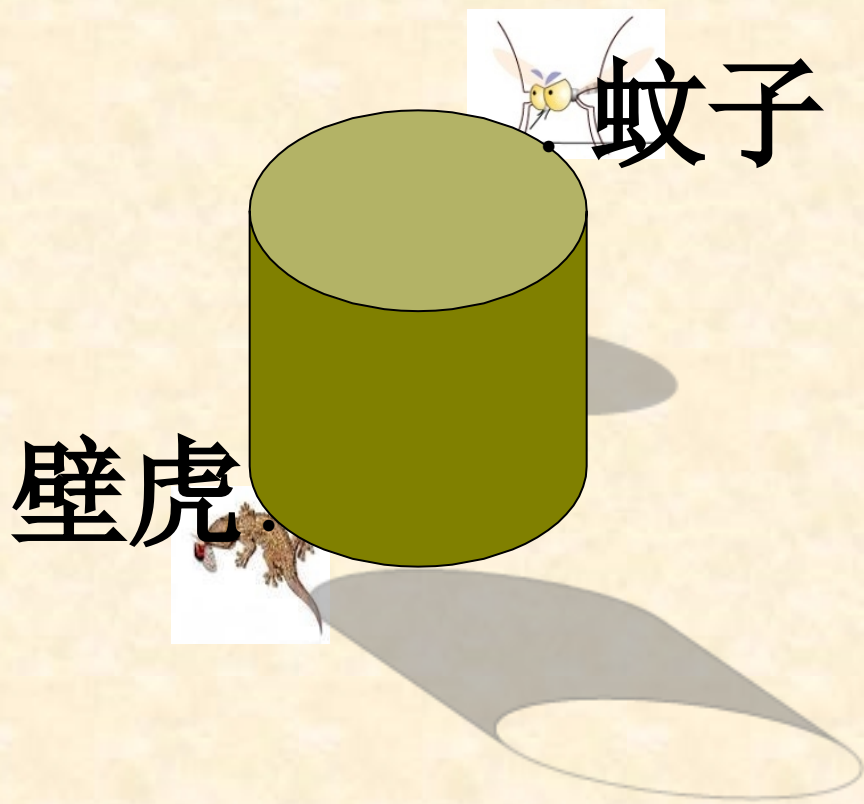
宏远中学 高效

# 教学目的

- 能直观认识立体图形和平面展开图。
  -
- 能画出立体图形的平面展开图.
- 经历立体图形与平面图形相互转化的过程.

# 小壁虎的难题：

如图：一只圆桶的下方有一只壁虎，上方有一只蚊子，壁虎要想尽快吃到蚊子，应该走哪条途径？

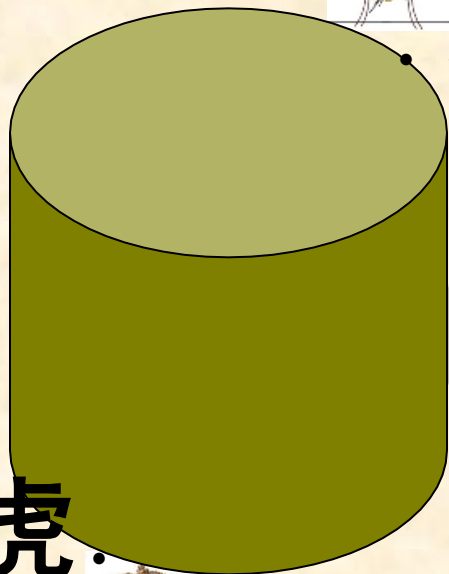


你有何高招  
？

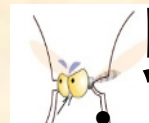
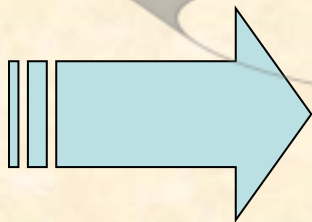




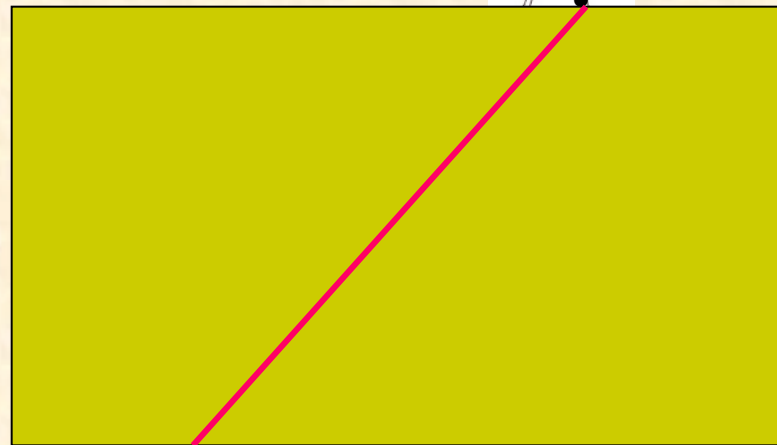
蚊子



壁虎



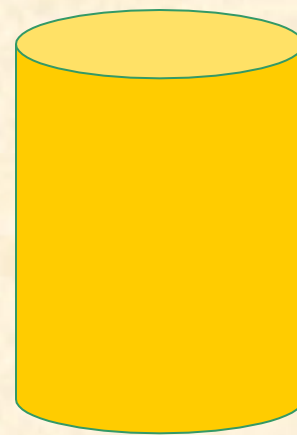
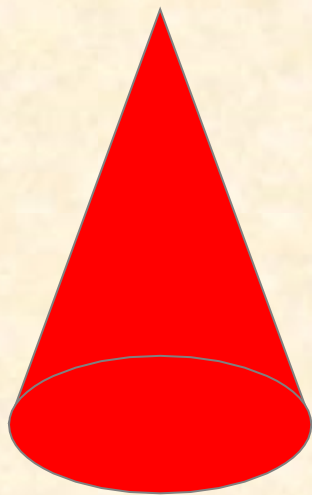
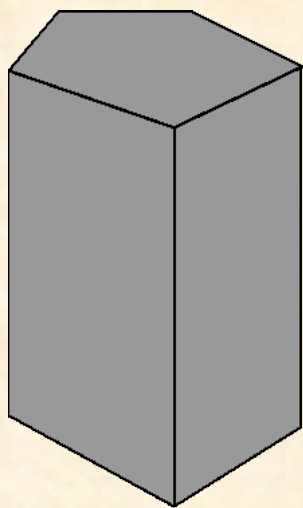
蚊子



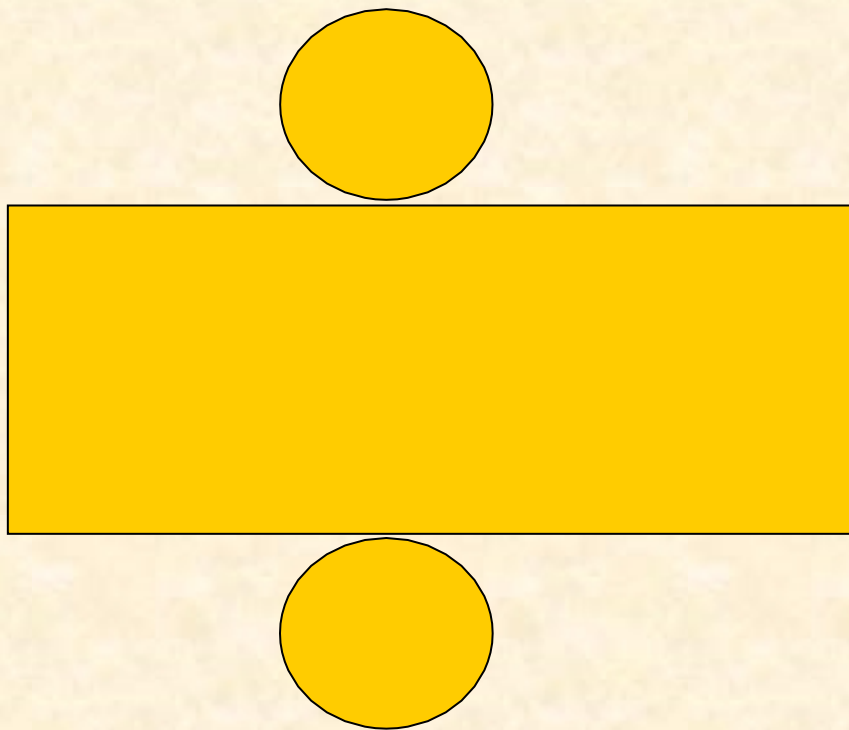
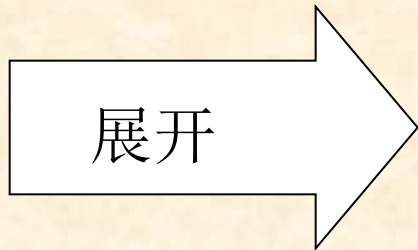
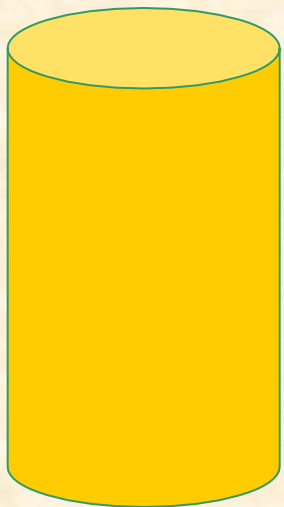
壁虎

## 活动一

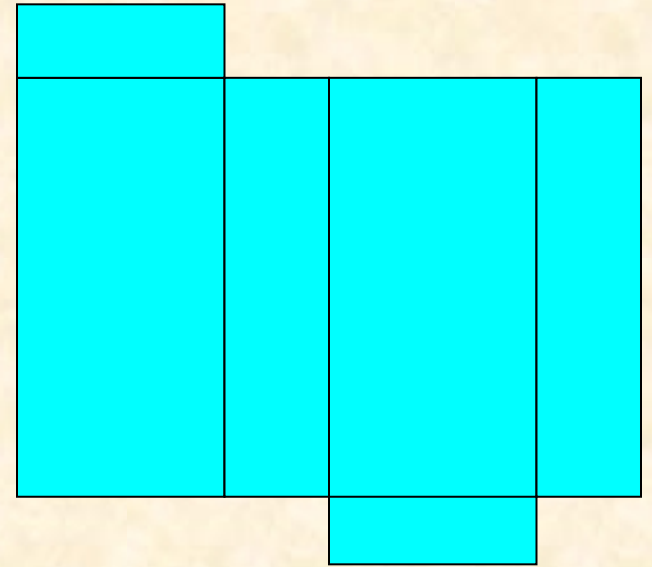
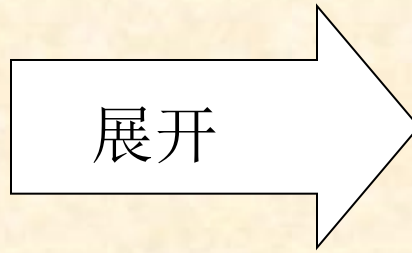
把你所做的立体图形展开，  
看它的平面展开图是什么。



# 圆柱

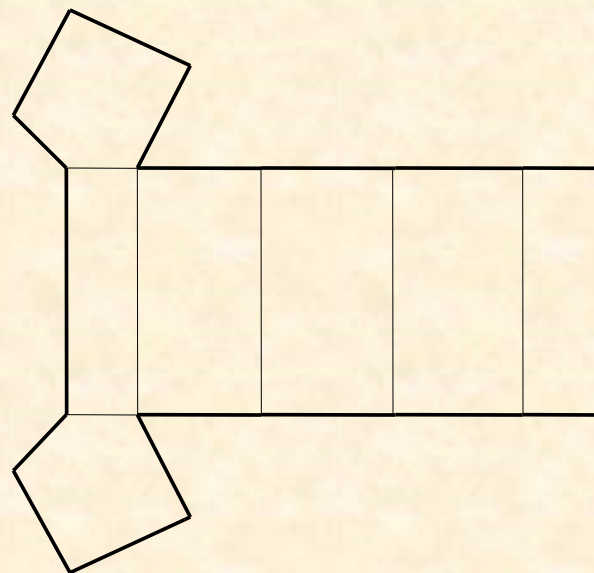
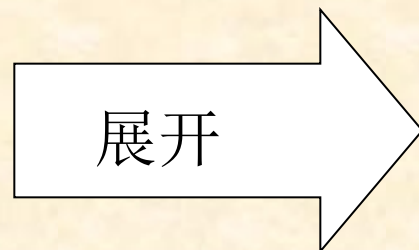
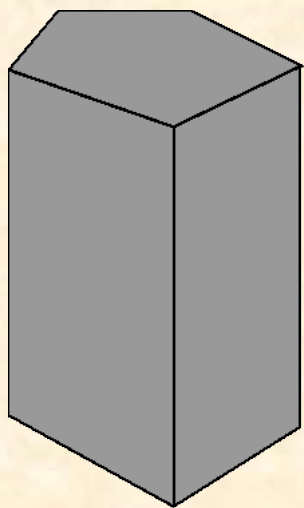


# 长方体





# 棱柱



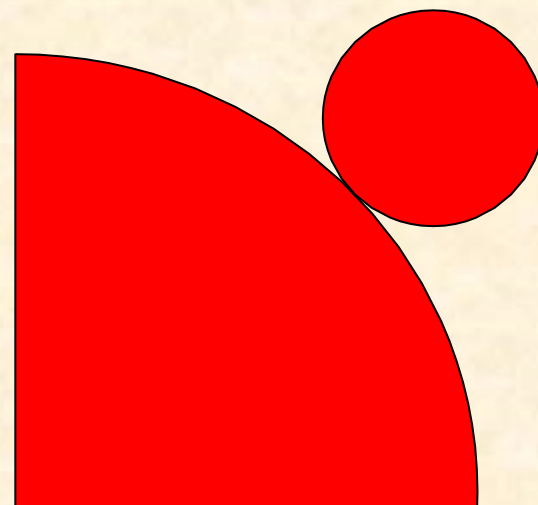
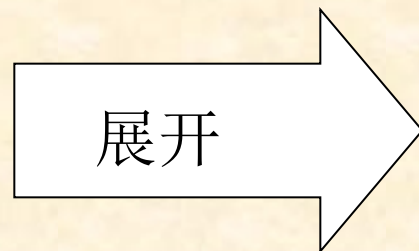
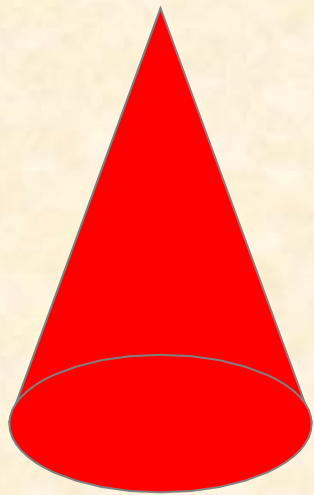


## 交流归纳:

有些立体图形  $\xrightarrow{\text{展开}}$  平面图形

有些平面图形  $\xrightarrow{\text{折叠}}$  立体图形

# 圆锥

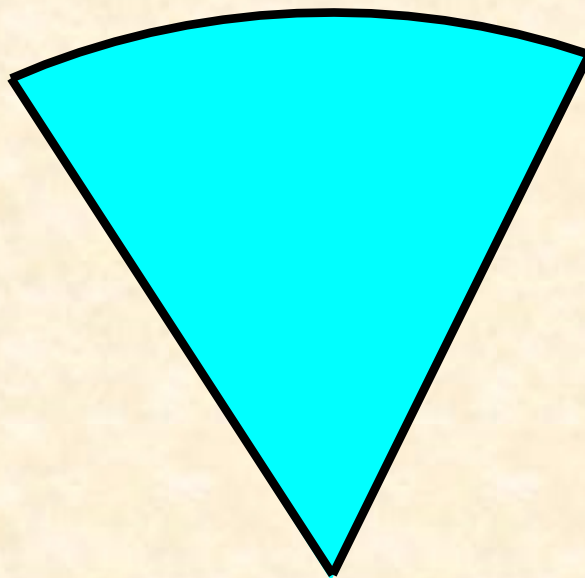
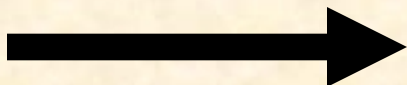


# 一、观察思索

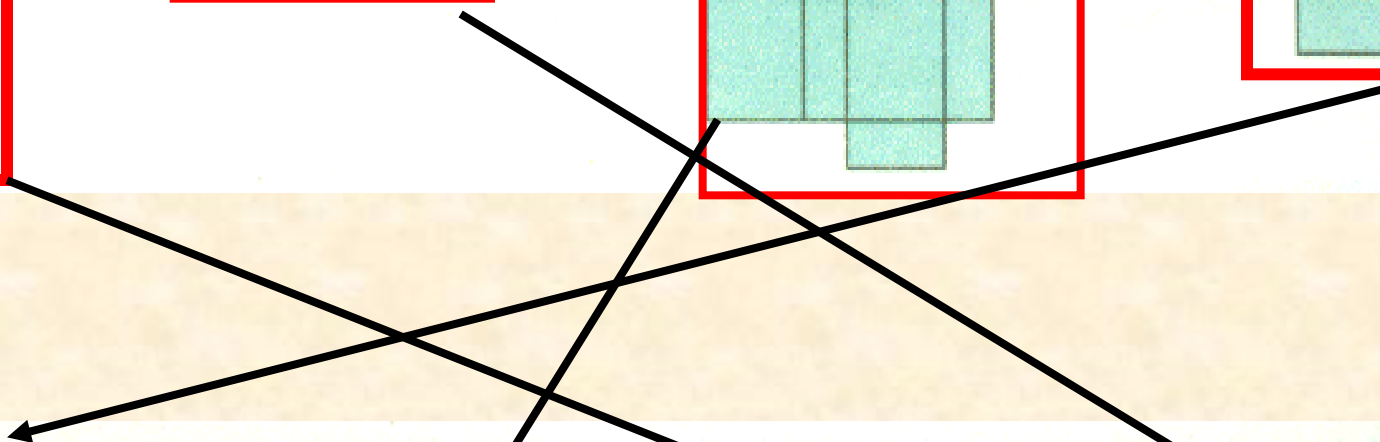
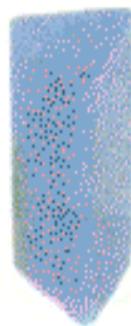
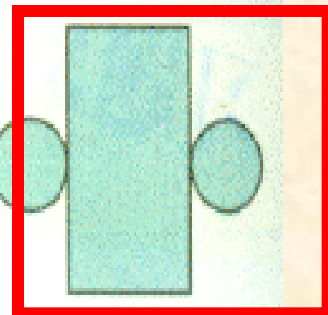
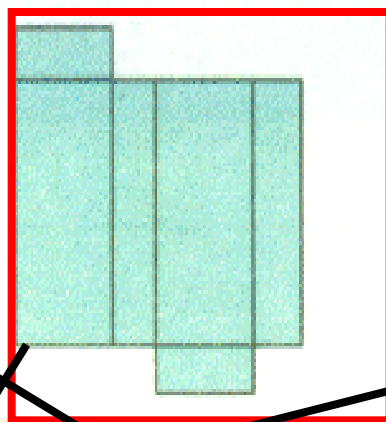
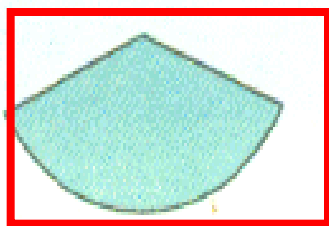
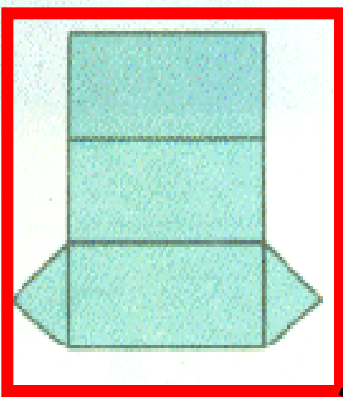
## 1.冰淇淋筒



展开

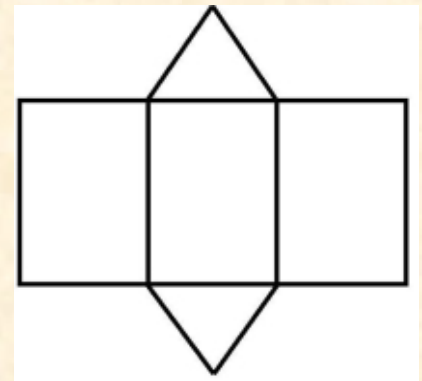
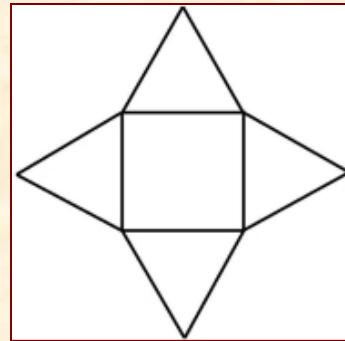
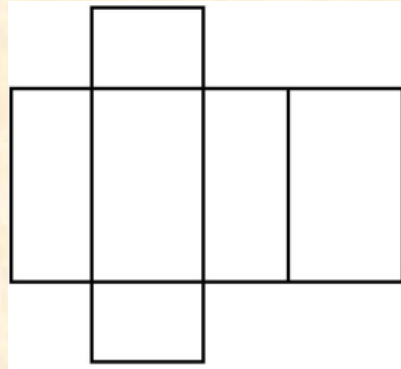
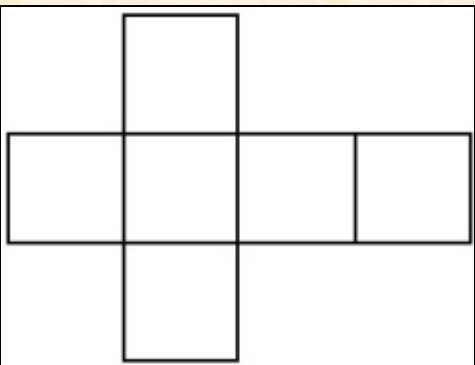


# 练习:



# 猜一猜

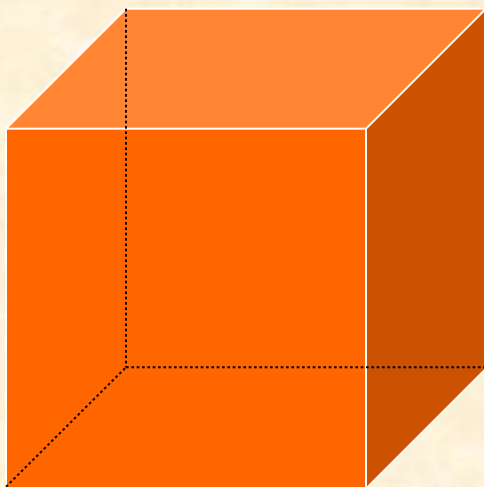
- 将下面四个图形折叠，你能说出这些多面体的名称吗？



# 活动

用剪刀把桌上的正方体纸盒按任意方式沿棱展开，你能得到哪些不同的展开图？比比哪一小组的展开图更与众不同。

图形认识初步课  
件  
正方体的展开图  
(3)  
GSP二



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