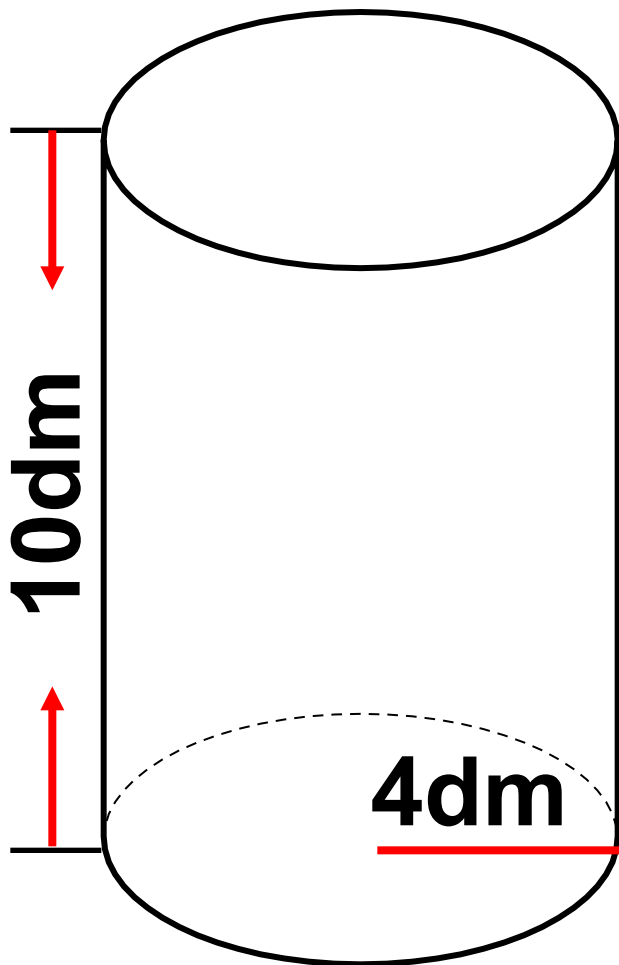


# 关于圆柱的侧面积 和表面积

求这个圆柱的底面周长和底面积。



$$\begin{aligned}c &= 2\pi r \\ &= 8\pi \\ &= 25.12 \text{ (cm)}\end{aligned}$$

$$\begin{aligned}s &= \pi r^2 \\ &= 16\pi \\ &= 50.24 \text{ (cm}^2\text{)}\end{aligned}$$

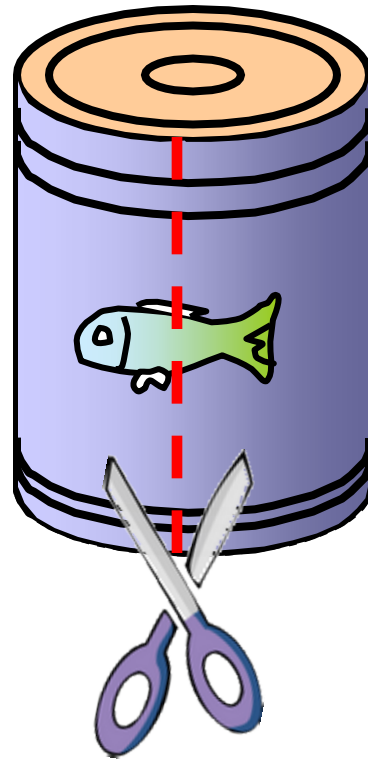
**例2** 一种圆柱形状的罐头，它的底面直径是10厘米，高是15厘米。侧面有一张商标纸，**商标纸的面积**大约是多少平方厘米？（接头处忽略不计）

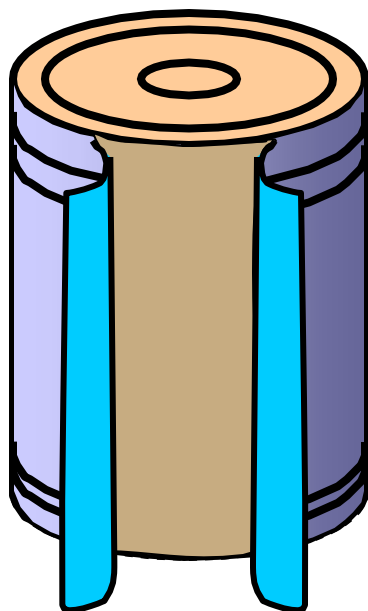
**求商标纸的面积，  
就是求圆柱的侧面积。**

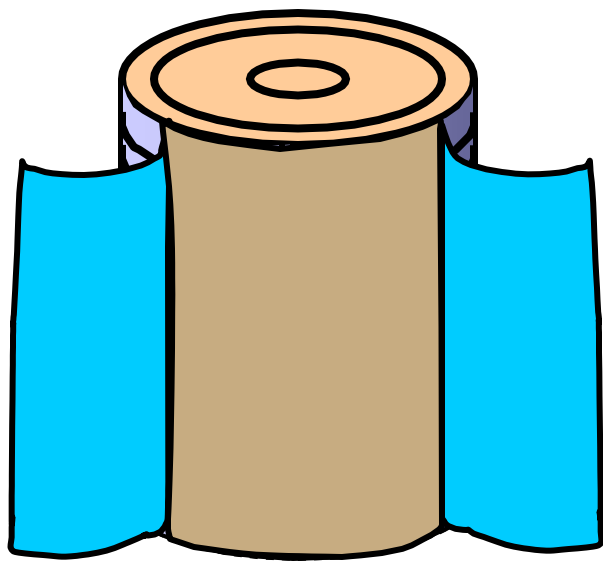


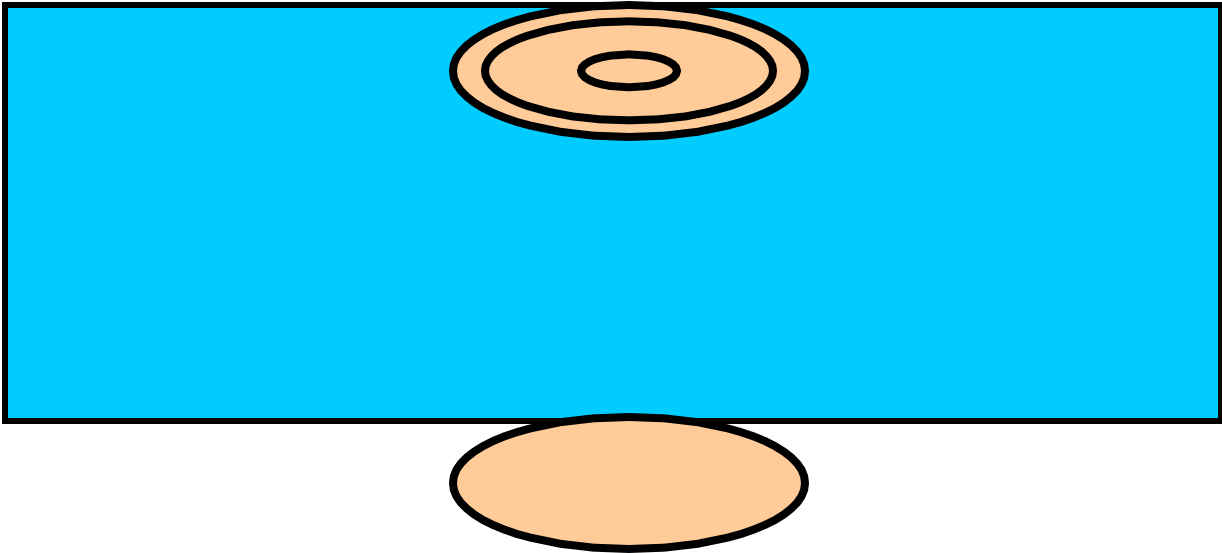
# 小组讨论：

1. 商标纸可以怎么剪开？
2. 剪开后得到什么图形？
3. 这个图形的长和宽跟圆柱的什么有关系？
4. 圆柱的侧面积怎么求？

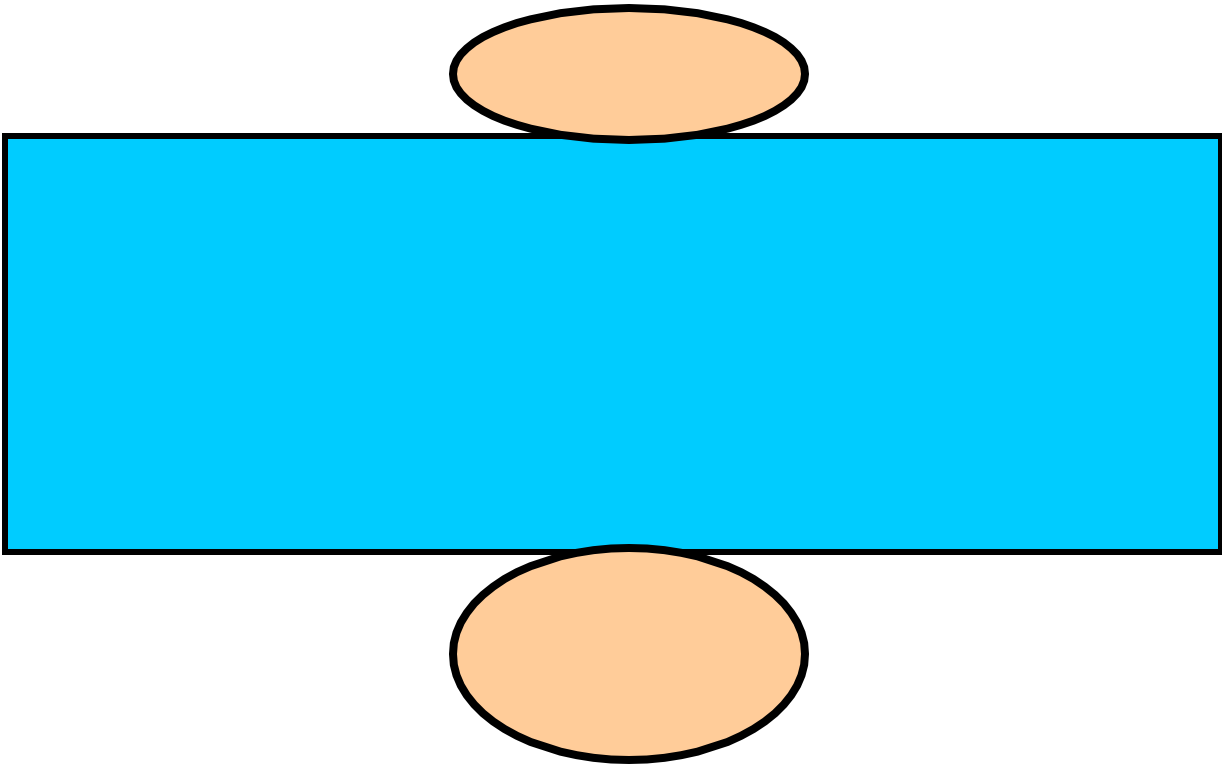


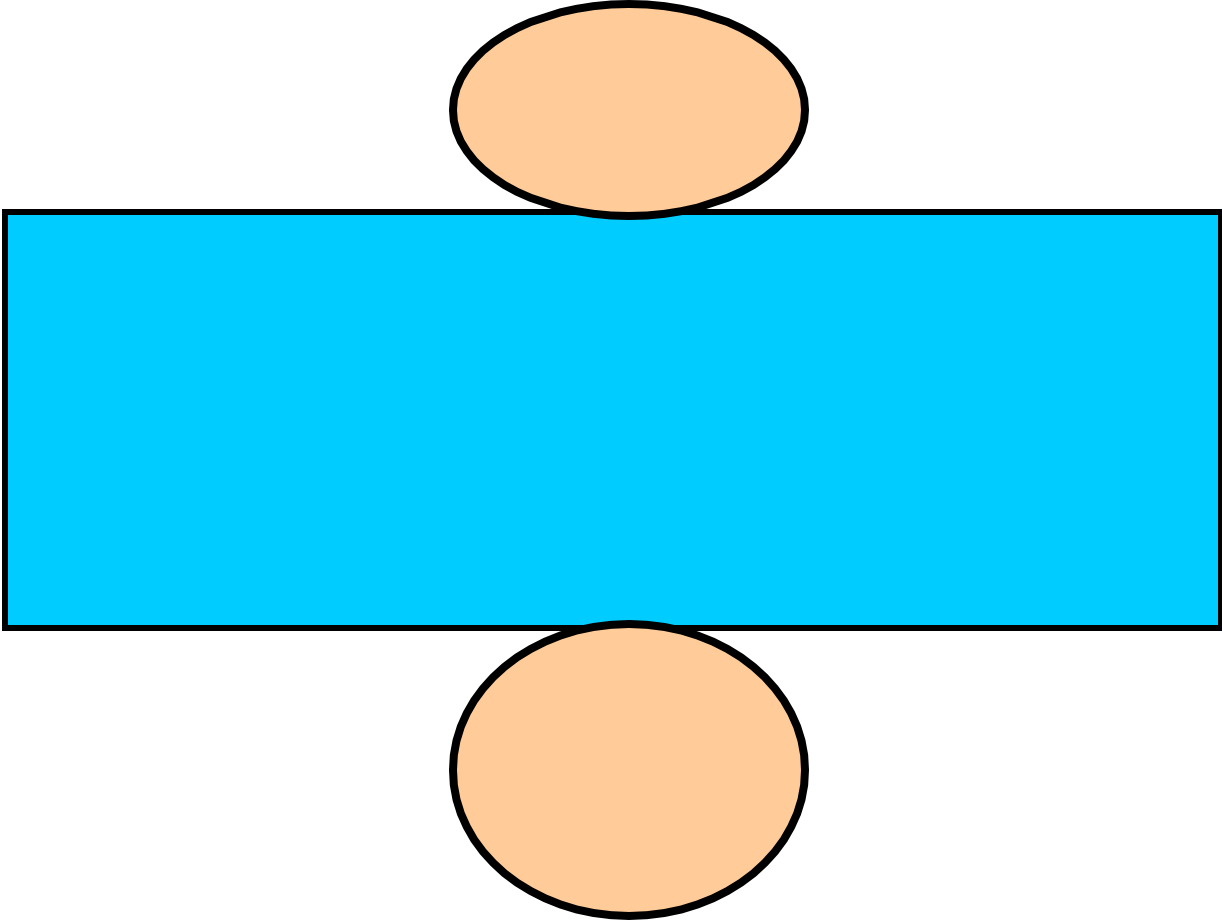


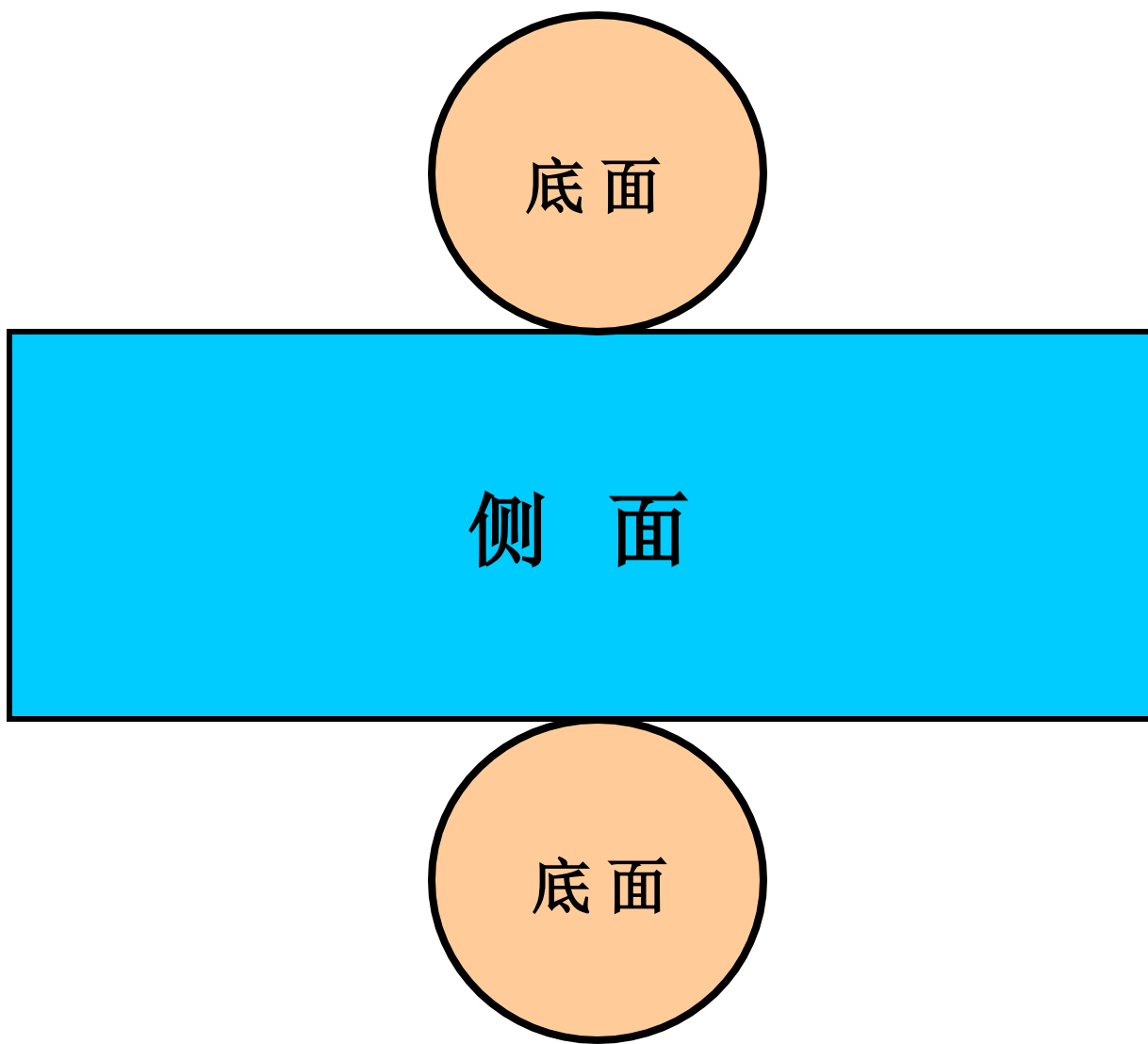




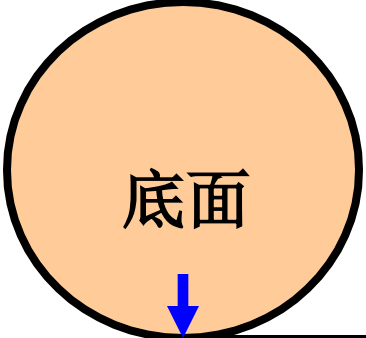




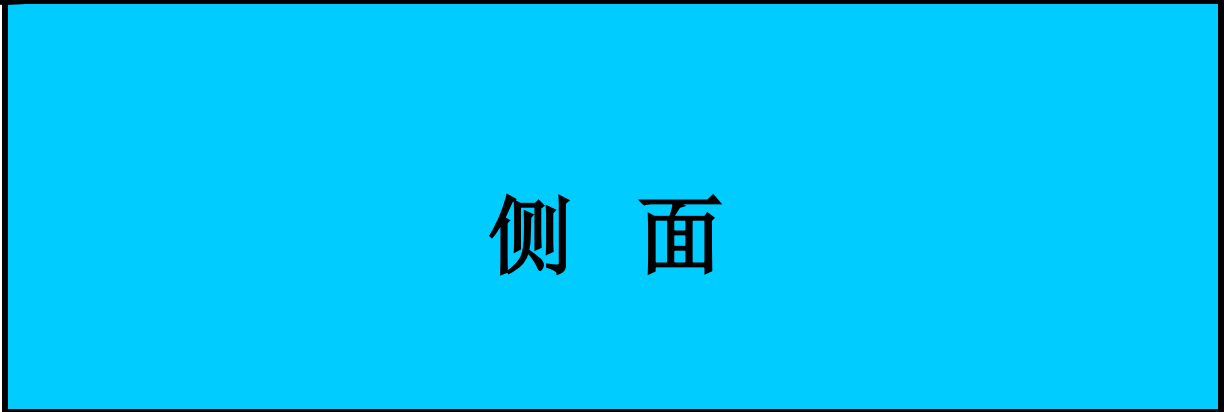




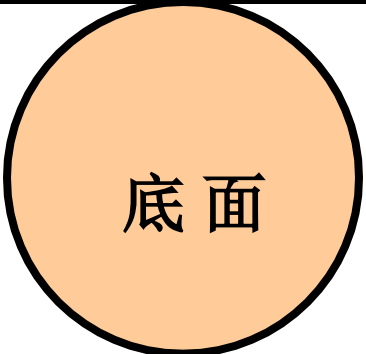
把圆柱体的侧面沿着它的一条高展开，得到一个长方形。



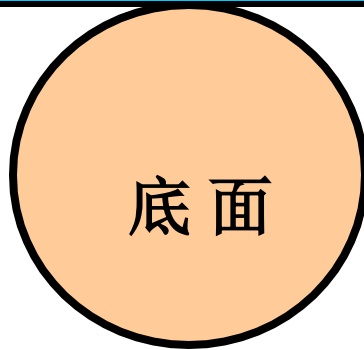
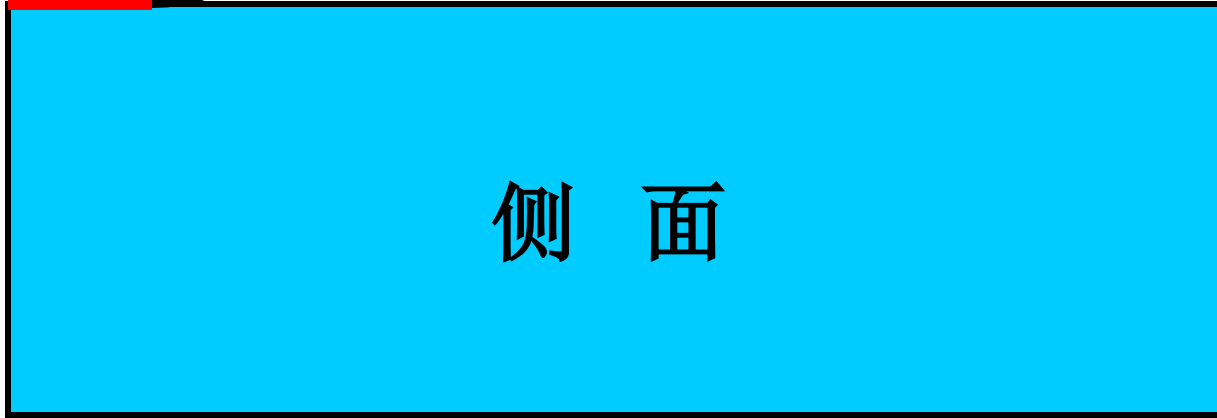
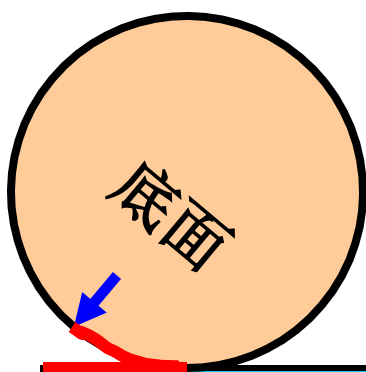
底面

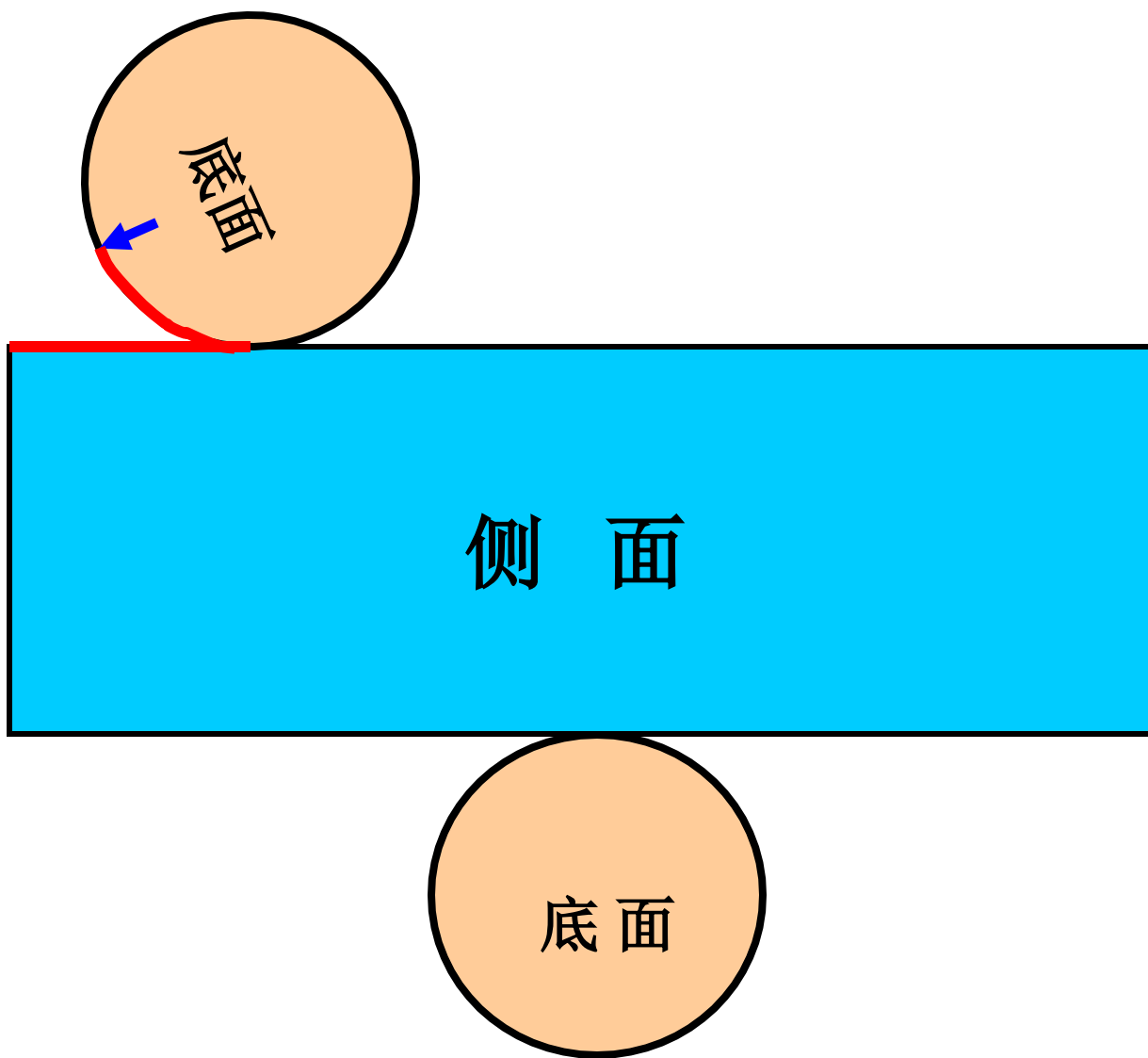


侧面



底面





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