



6.

Both have equal heights  
 first box is a cylinder, it has 3 faces  
 Second box is a cuboid, it has 6 faces.

$$\begin{aligned} \text{lateral surface area of cylindrical} \\ \text{box} &= 2\pi rh \\ &= 2 \times \frac{22}{7} \times \frac{7}{2} \times 7 \\ &= 154 \text{ cm}^2 \end{aligned}$$

lateral surface area of cubical  
 box

$$\begin{aligned} &= 4e^2 \\ &= 4 \times 7^2 \\ &= 4 \times 49 \\ &= 196 \text{ cm}^2 \end{aligned}$$

cubical box has larger l.s.a.

$$\begin{aligned} \text{by } 196 - 154 \\ &= 42 \text{ cm}^2 \end{aligned}$$