

**Grandson of Dilbert**

Each ear is a regular hexagon.

The angle bisectors of a regular hexagon divide the regular\* hexagon into six congruent equilateral triangles. Draw the angle bisectors.

Each side of the hexagon is 3 cm.

For an equilateral triangle with side  $s$ ,  
the area is  $\frac{s^2\sqrt{3}}{4}$ .

Here,  $s = 3$ .

Triangle area = \_\_\_\_\_

Hexagon area is \_\_\_\_\_  
times as much.

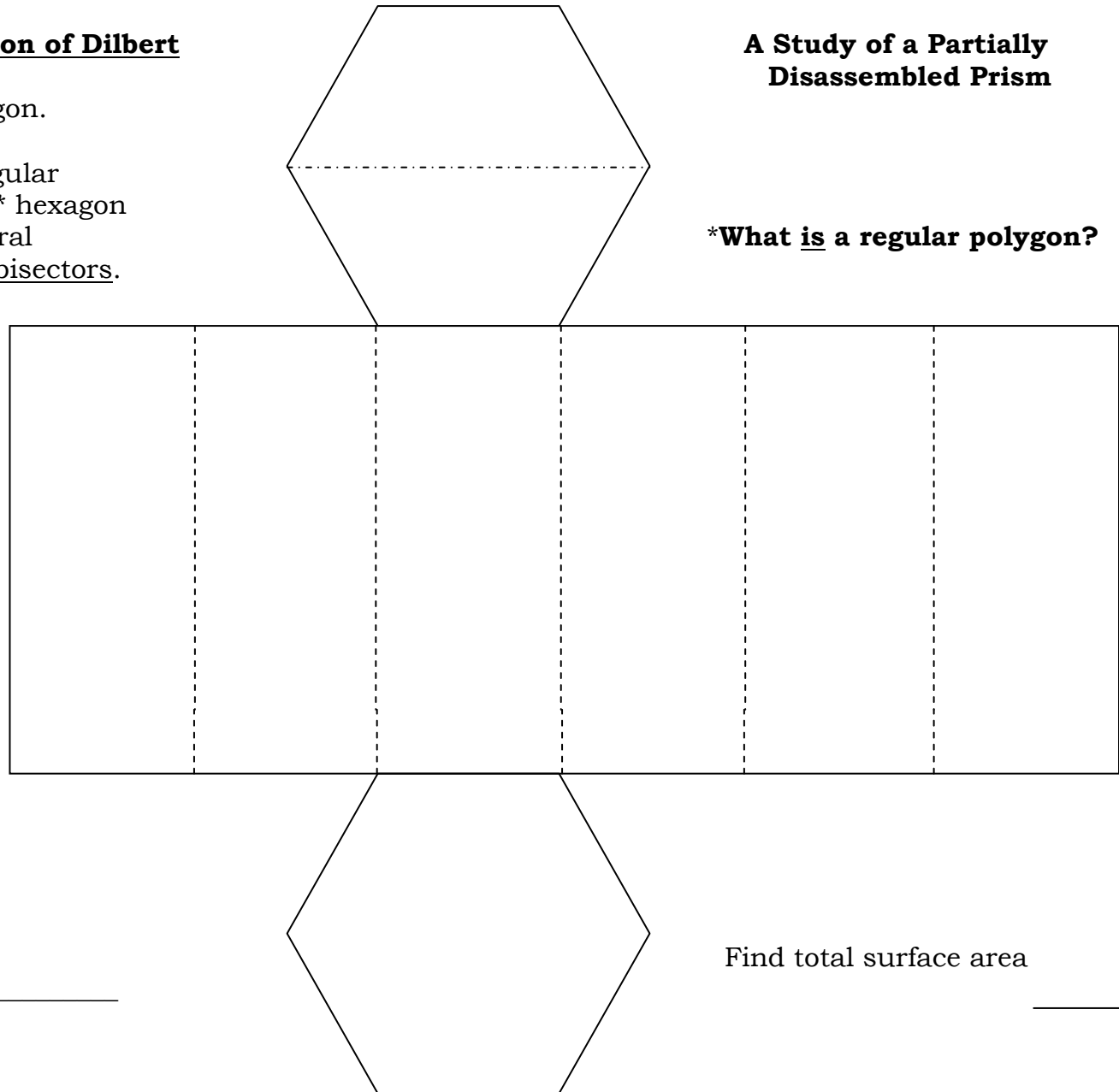
Each base area = \_\_\_\_\_

The height of this  
hexagonal prism is 7 cm.

Find lateral surface area \_\_\_\_\_

**A Study of a Partially  
Disassembled Prism**

**\*What is a regular polygon?**



Find total surface area \_\_\_\_\_

**Dilbert Reunion:**

A Study of a  
Partially Disassembled \_\_\_\_\_ ,  
the height of which is 50, and face diameter 70.

1. Show and complete the circle  
attribute schema.

2. What is the shape of the  
lateral surface?

3. What is the lateral surface  
area of this solid figure?

4. What is the total surface  
area?

5. What is the volume?

