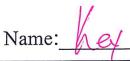
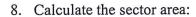
## **Arc Length-Sector Area**

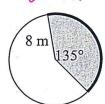


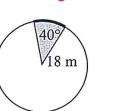






b. 24 mm





9. The area of a circle is 
$$225\pi$$
 square inches. Find the area of the sector whose central



$$=\frac{225}{8}$$
 1 in. 2

10. The central angle of a sector is 
$$60^{\circ}$$
 and the area of the circle is  $144\pi$ . What is the area of the sector?

12. Find the radius of a circle which has a sector area of 
$$9\pi$$
 whose central angle is  $90^{\circ}$ .

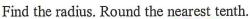
## 13. The central angle of a sector is $72^{\circ}$ and the sector has an area of $5\pi$ . Find the radius.

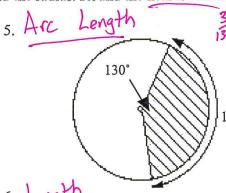
## 14. Find the measure of the central angle of a sector if its area is $5\pi$ and the radius is 6.

$$507 = \frac{X}{360}$$

$$\frac{36}{60} = \frac{36}{360} \cdot \frac{36}{360}$$

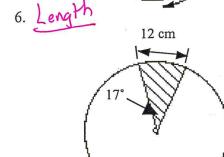
$$577 = \frac{X}{360} \cdot 17(6)^{2} \rightarrow \frac{517}{360} = \frac{X}{360} \cdot \frac{3607}{360} = \frac{360}{360} =$$

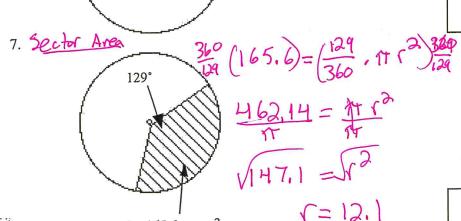




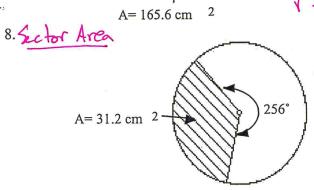
$$\frac{360}{150}(19.6) = \left(\frac{130}{360} \cdot 2117\right) \frac{360}{130}$$

(=8.6 cm





r = 12.1 cm



5.9 (= 000 cm