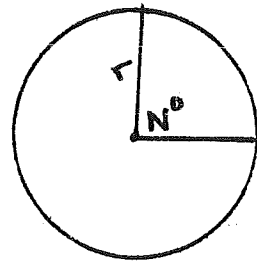


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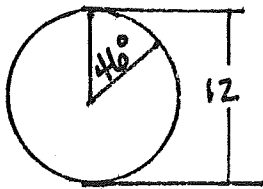
## 11-5 Areas of Sectors

If a sector of a circle has  $A$  square units, a central angle measuring  $N^\circ$ , and a radius of  $r$  units, then

$$A = \frac{N}{360} \pi r^2$$



ex: Find the area of the sector.



$$r = 6 \quad A = \frac{N}{360} \pi r^2$$

$$A = \frac{46}{360} \pi (6)^2$$

$$A = .127(3.14)(36) \\ = 14.4 \text{ units}^2$$

ex: Try! Find the area of the sector that is  $80^\circ$  in a circle with a radius of 5mm.