

Info Gap: From Sector to Circle

### Problem Card 1

A circle has a shaded sector. Your partner has some information about the circle and its sector.

Find the area of the circle.

Info Gap: From Sector to Circle

### Data Card 1

- The sector's central angle measures  $240$  degrees.
- The area of the sector is  $54\pi$  square feet.
- The length of the arc defined by the sector is  $12\pi$  feet.

Info Gap: From Sector to Circle

### Problem Card 2

A circle has a shaded sector. Your partner has some information about the circle and its sector.

Find the circumference of the circle.

Info Gap: From Sector to Circle

### Data Card 2

- The sector's central angle measures  $144$  degrees.
- The length of the arc defined by the sector is  $8\pi$  feet.
- The area of the sector is  $40\pi$  square feet.