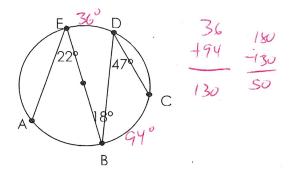


$$2) \ m\widehat{DC} = \underline{50^{\circ}}$$



3) A pie is sliced into 12 equal slices. The arc length of one slice is 6 inches. What is the diameter of the pie? M. L. GOTIF = 2160

$$\frac{30}{360} = \frac{6}{2\pi 0}$$

$$\frac{30}{360} = \frac{6}{2\pi r}$$
 $71 = 36$ $\times 2$ $71 = 36$ $\times 2$ $71 = 36$ $\times 2$ $71 = 36$

4) Find the area of a circle with a circumference of $216~\mathrm{ft}$.

$$C=2\pi\Gamma$$
 $A=\pi r^2$

5) The Great Circle in a sphere has a circumference of 42π cm. Find the surface area of the sphere. 5-471

$$S = 1764\%$$

$$\approx 5541.77$$
is 380 m³ Find the radius

6) The volume of a sphere is 380 m^3 . Find the radius.

$$V = \frac{4\pi r^3}{3}$$

7) A beach ball is inflated in a cubic box until it is just touching all of the sides. If the box has a volume of 216 in^3 , what is the volume of the beach ball?

$$V=5^3$$
 $V=\frac{4\pi r^3}{3}$
 $V=\frac{4\pi r^3}{3}$
 $V=\frac{4\pi r^3}{3}$
 $V=\frac{4\pi r^3}{3}$
 $V=\frac{4\pi r^3}{3}$
 $V=\frac{4\pi r^3}{3}$

8) In a circle, the arc length of a sector is 12 in and its intercepted arc has a measure of 65° . Find the diameter of the circle.

$$\frac{A}{360} = \frac{1}{2\pi r}.$$
 130 $\pi r = 4320$

$$\frac{65}{360} = \frac{12}{2\pi r}$$
 $\pi r = 33.23$

$$r = 10.58 \times 2 = 21.16 \text{ in } = d$$

9) The arc length of a sector is 5.4 inches and the radius is 2 inches. Find the degree measure of the sector.

$$\frac{m}{360} = \frac{Q}{2\pi r}$$

$$\frac{m}{360} = \frac{5.4}{2\pi 2}$$

$$M = 154, 70^{\circ}$$

10) What is the volume of a sphere with a radius of 12.9 feet?

$$V = \frac{4\pi I^3}{3}$$
 $V = 8992.03 \text{ ft}^3$

11) Find the radius of a sphere with a surface area of $318 in^2$.

$$5=4\pi r^{2}$$
 25, $31=r^{2}$
 $318=4\pi r^{2}$ 5.03 $in=r$
 $79.5=\pi r^{2}$

Additional Topics for Review:

- Circle vocabulary
- Eye height, Angle of Elevation/Depression, #16 & 17 from Unit 8
- Listen to some good music.