1. Find the area of the shaded region in circle O.

Area = 

2. Find the length of TV. Round your answer to the nearest tenth.

a) 22.7 cm  
b) 56.7 cm  
c) 21.8 cm  
d) 8.7 cm
3. The diameter of a circular stained glass window is 20 inches. Which is closest to the area of one window pane if the window is cut into 6 equal sections?

area = 

4. What is the approximate length of arc HI?

3 m

150°
5. The minute hand of a clock is 8 inches and travels an arc of 144° every 24 minutes. What is the length this minute hand travels in this 24 minute period?

a) 80.4 in  
b) 20.1 in  
c) 60.3 in  
d) 723.8 in

6. Given: Circle S

Which is closest to the area of the shaded sector of circle S?

a) 285.1 cm²  
b) 380.1 cm²  
c) 48.0 cm²  
d) 264.0 cm²
7. Which is closest to the area of the section of circle shown?

\[
\text{area} = \frac{1}{2} \times \frac{70^\circ}{360^\circ} \times \pi \times 16^2
\]

a) 312.8 cm\(^2\)
b) 156.4 cm\(^2\)
c) 39.1 cm\(^2\)
d) 78.2 cm\(^2\)

8. A pie has a diameter of 24 inches. Which is closest to the area of one slice of pie if the pie is divided in 10 equal pieces?

area = \[
\text{area} = \frac{1}{10} \times \pi \times 12^2
\]

9. The world's largest pie has a diameter of 20 ft. Which is closest to the area of one slice if the pie is divided into 10 slices?

a) 31.4 ft\(^2\)  b) 125.7 ft\(^2\)
c) 314.2 ft\(^2\)  d) 15.7 ft\(^2\)
10. Circle G represents a window pattern. The window is divided into 6 congruent sectors, and the circumference of the circle is 113.04 inches. What is the area of one sector of the window?

\[
a) \ 18.84 \text{ in}^2 \quad b) \ 1017.36 \text{ in}^2 \\
c) \ 242.9 \text{ in}^2 \quad d) \ 169.56 \text{ in}^2
\]

11. Shawn planted flowers in a section of a circular garden as shown. What is the area of this section of the garden?

\[
\text{area} = \quad \text{(area of the sector)}
\]

\[
\text{35}^\circ \\
\text{25 ft}
\]
12. The diameter of a blueberry pie is 10 inches. Which is closest to the area of one slice if the pie is cut into 8 equal pieces?

a) 19.6 sq in  
b) 9.8 sq in  
c) 13.1 sq in  
d) 52.3 sq in

13. The circumference of circle C is $216\pi$. What is the length of arc SML?

a) $126\pi$  
b) $108\pi$  
c) $90\pi$  
d) $130\pi$
14.
A clock is shown with a minute hand that measures 5 inches. What is the distance traveled from 7:00 PM to 7:45 PM?

a) 39.25 in  
b) 15.7 in  
c) 31.4 in  
d) 23.55 in