

Name: *key*

Date:

Period:

HW #11-6: Quiz Review

1. Find the area of the triangle with sides 5, 6, and 9. Exact answer.

$$10\sqrt{2}$$

2. Find the area of a regular hexagon with a radius of 8. Exact answer.

$$96\sqrt{3}$$

3. Find the area of an equilateral triangle whose...

- a. side length is $2\sqrt{3}$. Exact answer.

$$3\sqrt{3}$$

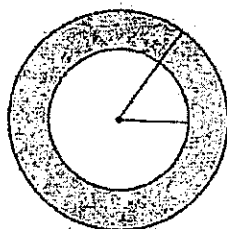
- b. apothem is $2\sqrt{3}$. Exact answer.

$$36\sqrt{3}$$

4. Find the area of a rhombus with a perimeter of 40 and one angle of 60° . Exact answer.

$$50\sqrt{3}$$

5. Find the area of the shaded region of the inner radius of 3 and the outer radius is 5. Exact answer.



$$16\pi$$

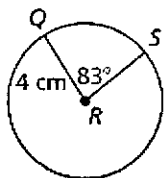
6. Convert 26° to radians. Exact answer.

$$\frac{13\pi}{90}$$

7. Convert $\frac{5\pi}{9}$ radians to degrees. Exact answer.

$$100^\circ$$

8. Find the length of $\widehat{QS}$. Exact answer.



$$\frac{83\pi}{45}$$

9. Find the area of sector QRS from problem #8. Exact answer.

$$\frac{166\pi}{45}$$

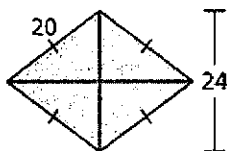
10. Find the area of the segment within sector QRS from problem #8. Round to hundredth.

$$\approx 3.65$$

11. Find the area of the nonagon with a side length of 10 inches. Round to hundredth.

$$\approx 618.18$$

12. Find the area of the rhombus.



$$384$$