

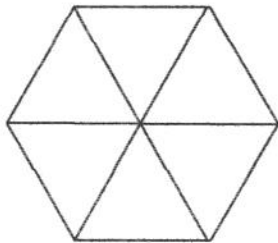
Name _____

Combined 10.3&10.7 Worksheet

1. Find the area of an equilateral triangle with sides of 8. Leave your answer in radical form.

A = _____

2. Find the area of this hexagon given that each triangle within the figure has a side of 10. Answer should be in simplest radical form.



10 in

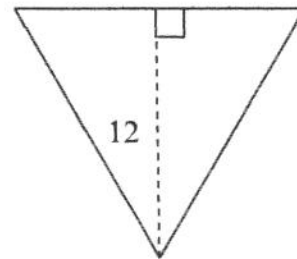
Each triangle is an _____ triangle and each angle of the triangles is _____ degrees.

A = _____

3. Find the area of a regular hexagon with an apothem 17.3 miles long and a side 20 miles long.

- A. 956 mi^2
B. 1038 mi^2
C. 1352 mi^2
D. 1124 mi^2

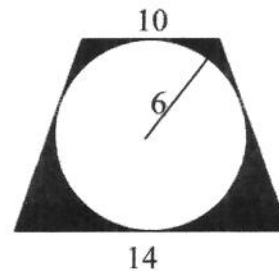
4. Find the area of an equilateral triangle with a height of 12. Round your answer to the nearest whole number.



side = _____

A = _____

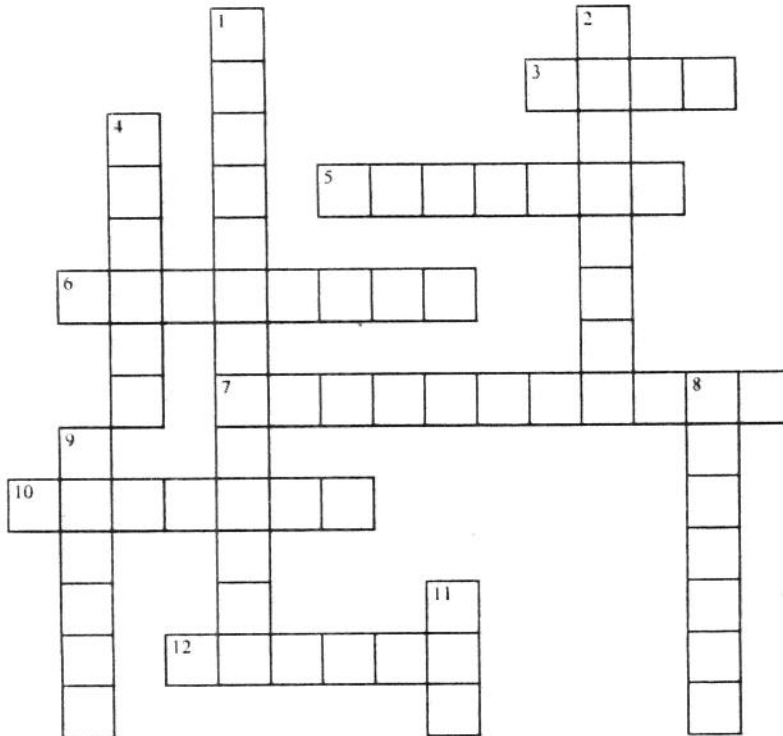
5. Find the area of the shaded portion of the figure. Leave your answer in terms of π .



Area of Trapezoid _____

Area of Circle _____

Circle Vocabulary



ACROSS

- 3 The number of square units enclosed by a plane figure is its _____.
- 5 A/an _____ polygon has equal sides and equal angles.
- 6 The _____ of a circle is a segment that contains the center of the circle and whose endpoints are on the circle.
- 7 A/an _____ triangle has 3 equal sides and 60 degree angles.
- 10 A part of the area of a circle bounded by an arc and the segment joining its endpoints is a _____.
- 12 A portion of the area of a circle bounded by an arc and the two radii to the arc's endpoints is a _____ of a circle.

DOWN

- 1 The perimeter of a circle, the distance around the circle.
- 2 To find the area of a segment of a circle you must find the area of the sector and subtract the area of the _____.
- 4 The segment that connects the center of the circle to a point on the circle.
- 8 The _____ of a regular polygon is the ~~distance from the center of a circle and~~ *distance from the center of a circle and perpendicular to a side. + bisects a side*
- 9 The radius of a regular polygon is the distance from the center to a(n) _____ of the polygon.
- 11 The measure of a central angle is equal to the measure in degrees of the _____.