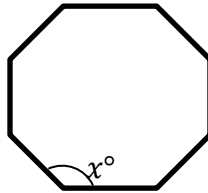


Name _____ Date _____

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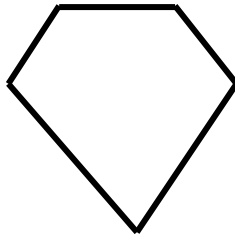
1. Draw a square. What is the total of the interior angles? _____
Draw a rectangle. What is the total of the interior angles? _____
Draw a triangle. What is the total of the interior angles? _____
2. Below is a regular octagon. What is the measure of just one interior angle?



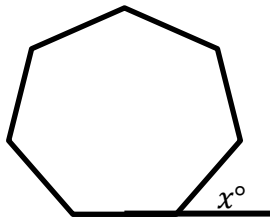
3. A regular polygon with x number of sides has interior angles whose measures total up to 900° . How many sides are on that polygon? _____
4. What is the sum of all the exterior angles of a regular pentagon? _____
5. What is the measure of just one exterior angle of a regular hexagon? _____
6. Look at the cover of this book. The Susan B. Anthony coin has a regular polygon shape inside the circle. What is the total of all the interior angles in that polygon shape?
7. Look at the coin on the cover again. What is the measurement of one of the exterior angles of the polygon?

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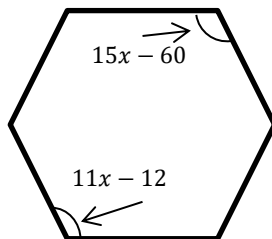
8. What is the measure of just one of the interior angles in the polygon shape on the Susan B. Anthony coin?
9. What is the total measurement of all the interior angles in the polygon below?



10. Below is a regular polygon. What is the measurement of one exterior angle?



11. Solve for x in the regular hexagon below.

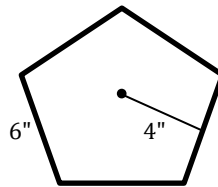


12. A regular polygon has an exterior angle that measures 36° . How many sides does that polygon have?

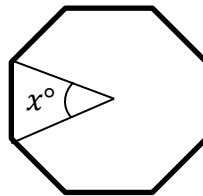
Name _____ Date _____

Worksheet 21 Page 1 of 1

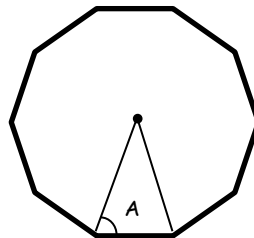
1. Find the area of the regular pentagon below. The apothem = 4" and the sides are 6".



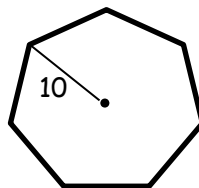
2. What is the measure of the central angle in the regular octagon below?



3. What is the measure of angle A in the regular polygon below?



4. Find the area of the regular polygon below.



Name _____ Date _____

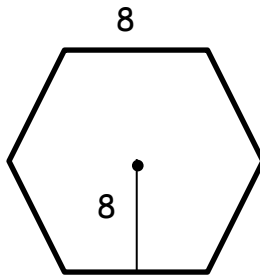
Chapter 4 Test page 1 of 2

1. Name this regular polygon. The interior angles total 540° . _____

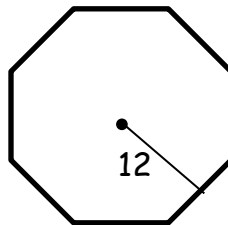
2. A regular polygon has 9 sides. What is the size of the central angle? _____

3. What is the measurement of one exterior angle of a regular octagon? _____

4. Find the area of the polygon below.



5. Find the length of the radius in the regular polygon below. The apothem = 12. You can round your answer to the nearest whole number.



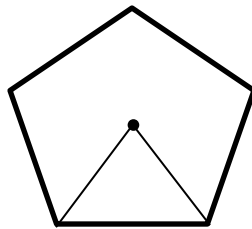
6. A regular polygon has an exterior angle that measures 30° . How many sides does the polygon have? _____

Chapter 4 Test page 1 of 2

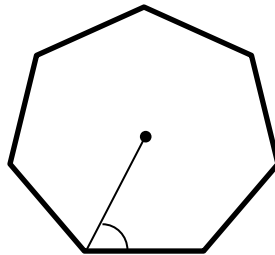
7. How many central angles are there in a regular hexagon? _____

8. A regular polygon has a central angle whose measure is 36° . How many sides does the polygon have? _____

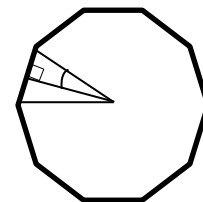
9. Find the area of the regular pentagon below. The radius = 18.



10. What is the measurement of the marked angle below? _____



11. What is the measurement of the marked angle below? An apothem has been drawn. _____



Write the theorem that proves your answer.
