

Geometry
Chapter 6 Review 2014- SHOW ALL WORK

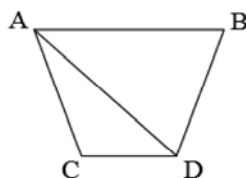
Name _____
 Date _____ Period _____

1. Measure AB to the nearest tenth of a centimeter.

1. _____

2. Measure $\angle ADB$ to nearest degree.

2. _____



Classify each statement as always, sometimes, or never true. Hint: draw a picture!

3. A trapezoid is a parallelogram.

3. _____

4. A square is a rhombus.

4. _____

5. The parallelogram is a rectangle.

5. _____

6. The diagonals of a parallelogram are perpendicular.

6. _____

Given the following rhombus and kite, find the area of each figure.

7.
 $RX = 16$ cm
 $AB = 12$ cm

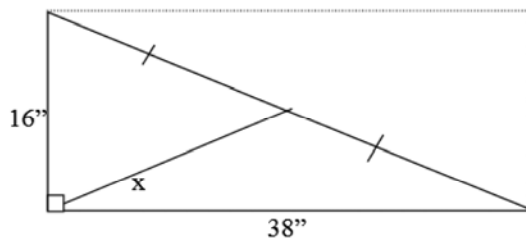
8.
 $BD = 26$ cm
 $AC = 50$ cm

7. _____

8. _____

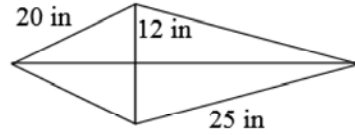
9. Find x to the nearest tenth.

9. _____



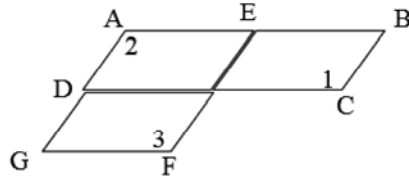
10. Find the area of the kite to the nearest tenth.

10. _____



11. Given: ABCD, AEFB are parallelograms.

Prove: $\angle 1 \cong \angle 3$



1. ABCD, AEFB are parallelograms.

1. Given

2.

2.

3.

3. Opposite angles of a parallelogram are congruent.

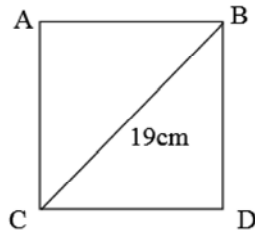
4. $\angle 1 \cong \angle 3$

4.

12. Find x in the square below, given

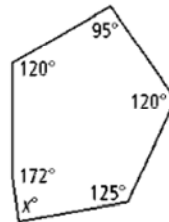
12. _____

$m\angle A = (6x + 13)^\circ$



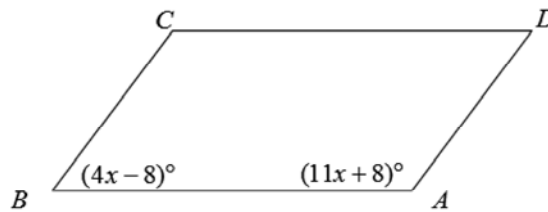
13. Find the value of x in the figure at the right.

13. _____



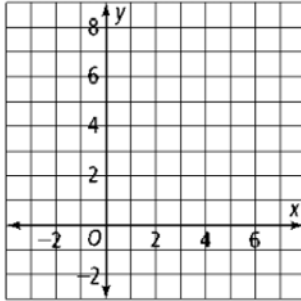
14. Find $m\angle B$ in parallelogram ABCD.

14. _____



15. The sum of the measures of the interior angles of a pentagon is _____.
16. The sum of the measures of the interior angles of a dodecagon is _____.
17. Find the sum of the exterior angles of a 32-gon.
18. An exterior angle of a regular polygon measures 72° . How many sides does it have?
19. An exterior angle of a regular polygon measures 20° . How many sides does it have?
20. Find the area of a square with a diagonal of 28 cm.
21. One exterior angle of a regular polygon is 36° . What is the measure of one interior angle?
22. The measure of one interior angle of a regular polygon is 165° . What is the sum of the interior angles?
23. The sum of the interior angles of a polygon is 1440° . Name the polygon.

24. a) Graph and label the quadrilateral with the given vertices: $A(2, 5)$, $B(7, 6)$, $C(6, 2)$, and $D(1, 1)$



b) Then determine the most precise name for the quadrilateral **SHOW ALL WORK!!!**

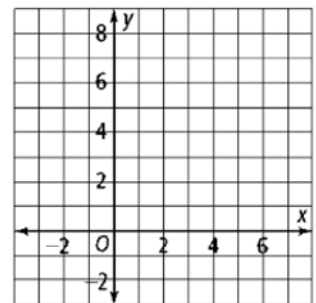
25. a) Graph and label the triangle with vertices $P(6,0)$, $H(0,2)$ and $S(0,-2)$.

b) Determine whether $\triangle XYZ$ is scalene, isosceles, or equilateral.

c) Determine whether $\triangle XYZ$ is a right triangle.

SHOW ALL WORK!!!

25a)



b. _____

c. _____