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Date _____

CHAPTER
8

Chapter Practice Test

MULTIPLE CHOICE.

Show all work!!!!

1. **Multiple Choice** The perimeter of a square $MNOP$ is 72 inches, and $NO = 2x + 6$. What is the value of x ?

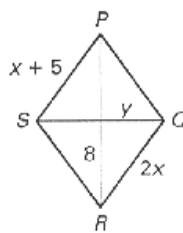
- (A) 15 (B) 12 (C) 6
(D) 9 (E) 18

2. The bases of trapezoid $PQRS$ are \overline{PQ} and \overline{SR} , and the midsegment is \overline{MN} . Given $PQ = 9$ centimeters, and $MN = 7.2$ centimeters, what is SR ?

- (A) 5.4 cm (B) 8.1 cm
(C) 10.8 cm (D) 12.6 cm

3. **Multiple Choice** In the diagram below, $PQRS$ is a rhombus. What are the values of x and y ?

- (A) $x = \frac{5}{3}, y = 4$
(B) $x = 5, y = 2$
(C) $x = 10, y = 4$
(D) $x = 5, y = 6$
(E) $x = 10, y = 6$

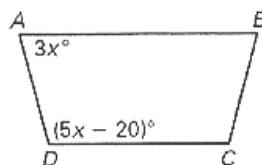


4. **Multiple Choice** What is the measure of an exterior angle if the regular polygon has 18 sides?

- (A) 18° (B) 20° (C) 22°
(D) 24° (E) 26°

5. **Multiple Choice** What value of x would make quadrilateral $ABCD$ a trapezoid?

- (A) 30 (B) 20
(C) 25 (D) 35
(E) 10



6. **Multiple Choice** Which statements below are always true about a trapezoid?

- I. Exactly one pair of opposite sides are congruent.
II. Exactly one pair of opposite sides are parallel.
III. The diagonals are congruent.

- (A) I (B) II (C) III
(D) I and II (E) none of these

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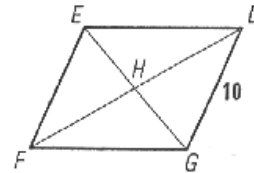
Complete questions 7-10 given that $DEFG$ is a rhombus.

7. a. If $DH = 8.5$, $DF =$ _____. b. Find HG . _____

8. If $m\angle GDE = 68^\circ$, $m\angle EDF =$ _____ $^\circ$ & $m\angle DEH =$ _____ $^\circ$

9. Find the perimeter of $DEFG$. _____

10. $m\angle FHG =$ _____ $^\circ$



For #11-14, decide whether the statement is TRUE or FALSE.

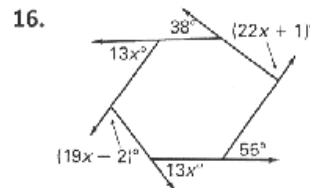
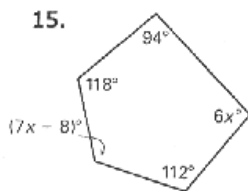
11. All rectangles are squares. _____

12. A kite is a parallelogram. _____

13. All rectangles are quadrilaterals. _____

14. All quadrilaterals are squares. _____

For #15-16, find the value of x .

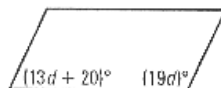


For #17-18, name the figure described below.

17. a quadrilateral with exactly one pair of parallel sides _____

18. a quadrilateral with exactly one pair of opposite angles congruent and perpendicular diagonals _____

19. For what value of d is the quadrilateral a parallelogram?



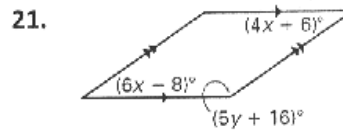
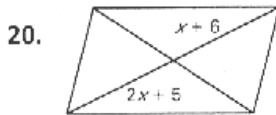
- A. 5 B. 10 C. 8 D. 11.9

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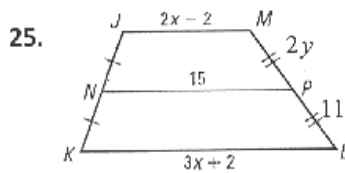
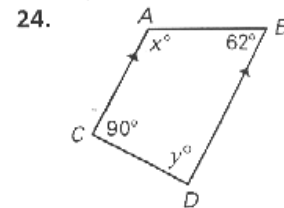
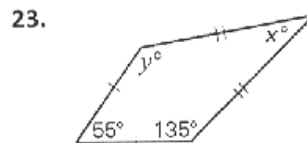
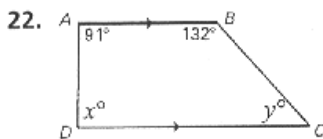
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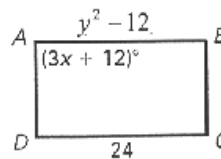
Find the values of x and y in the parallelogram.



Find the values of x and y .



26. $ABCD$ is a rectangle.

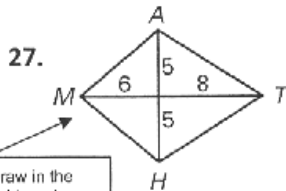


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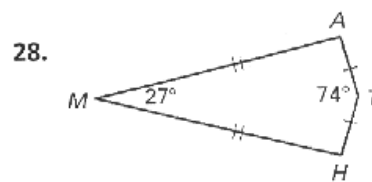
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Find the length of the sides to the nearest hundredth or the measure of the angles in kite *MATH*.



Draw in the right angles... Then use Pythagorean Theorem!

$MA = \underline{\hspace{2cm}}$	$AT = \underline{\hspace{2cm}}$
$MH = \underline{\hspace{2cm}}$	$TH = \underline{\hspace{2cm}}$



$m\angle A = \underline{\hspace{2cm}}$
$m\angle H = \underline{\hspace{2cm}}$

The sum of the measures of the interior angles of a convex polygon is given. Classify the polygon by the number of sides.

29. 1800°

30. 3960°

Find the sum of the measures of the interior angles of the indicated convex polygon.

31. Heptagon

32. 50-gon

33. 30-gon

34. For the quadrilaterals below, what is the most specific name you can give it?

