

LESSON

8-5

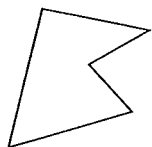
Reteach

Classifying Polygons

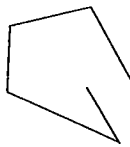
A **polygon** is a closed figure that starts and stops at the same point.
A polygon is made up of line segments that do not cross.

Determine whether each figure is a polygon. If it is not, explain why not.

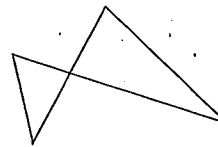
1.



2.



3.



Polygons can be classified by the number of sides or angles. The number of sides and angles is the same.

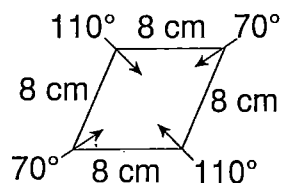
Complete the table.

* on back

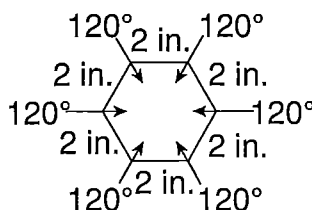
All the sides of a **regular polygon** have the same length, and all the angles have the same measure.

Determine whether each is a regular polygon. If it is not, explain why not.

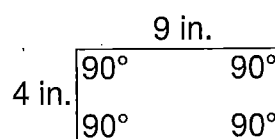
12.



13.



14.



Name _____

Polygons!

# of sides	# of vertices	Name of Polygon	Drawing
3			
	4		
		Hexagon	
	7		
		Octagon	
9			
	10		
72			Skip
	n		Skip

LESSON

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Practice B

Classifying Polygons

Determine whether each figure is a polygon. If it is not, explain why not.

1.



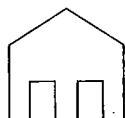
2.



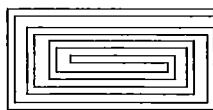
3.



4.



5.



6.



Name each polygon.

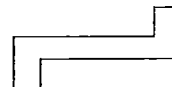
7.



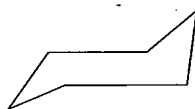
8.



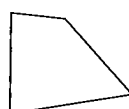
9.



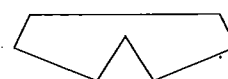
10.



11.

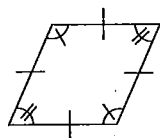


12.

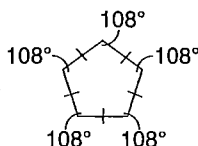


Name each figure and tell whether it is a regular polygon. If it is not, explain why not.

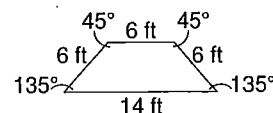
13.



14.



15.



LESSON
8-5
Problem Solving
Classifying Polygons

Write the correct answer.

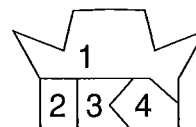
The drawing shows a crown designed by a child in an arts and crafts class. The crown is composed of 4 different figures.

1. Name the polygon in figure 1.

2. Name the polygon in figure 4.

3. Name the polygon in figure 3.

4. Is the crown a regular polygon?
Explain.



5. Name the polygon formed by figures 2, 3, and 4.

Choose the letter for the best answer.

The box shows some basic shapes from a word processing tool bar.

6. Which figure is *not* a quadrilateral?

A Figure 2

C Figure 4

B Figure 3

D Figure 5

7. Which figure is *not* a polygon?

F Figure 3

H Figure 11

G Figure 9

J Figure 12

8. Which figure is a pentagon?

A Figure 4

C Figure 10

B Figure 5

D Figure 12

9. Which figure is a regular polygon?

F Figure 1

H Figure 7

G Figure 2

J Figure 8

10. Which figure is an octagon?

A Figure 6

C Figure 11

B Figure 10

D Figure 12

