









An **algebraic expression** is a mathematical phrase that includes one or more variables. A **numerical expression** is a mathematical phrase involving numbers and operation symbols, but no variables.

**6.** Write **N** next to each *numerical expression*. Write **A** next to each *algebraic expression*.



2





a polygon with 4 sides

each figure.

a polygon with 5 sides

<b>Triangles in Polygons</b>		
Number of Sides of Polygon	Number of Triangles	
4	4 - 2	
5	5 — 2	
6	6 — 2	
n		

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**17.** Underline the correct word or words to complete the sentence.

The value of the expression in the table for a 6-sided figure is / is not the same as the number of triangles in the drawing of the hexagon.

- **18.** Give a rule in words to find the number of nonoverlapping triangles in a polygon.
- **19.** Write an algebraic expression for the number of nonoverlapping triangles in a polygon that has *n* sides.

## Lesson Check • Do you UNDERSTAND?

**Reasoning** Use the table to decide whether 49n + 0.75 or 49 + 0.75n represents the total cost to rent a truck that you drive *n* miles.

Truck Kental Fees		
Number of Miles	Cost	
1	\$49 + (\$.75 × 1)	
2	\$49 + (\$.75 × 2)	
3	\$49 + (\$.75 × 3)	
п		

**20.** Write a rule in words for the pattern shown in the table.

**21.** Now write an algebraic expression to represent the total cost of renting a truck.

Math Succe	55	
Check off the vocabula	ry words that you understand.	
variable	algebraic expression	numerical expression
Rate how well you can	write algebraic expressions.	
Need to 0 2	4 6 8 10	Now I get it!