



## Puzzle Time

### Why Was The Geometry Book So Sad? It Had ...

Circle the letter of each correct answer in the boxes below. The circled letters will spell out the answer to the riddle.

Identify the number of sides of the polygon.

1. nonagon                      2. hexagon                      3. decagon                      4. quadrilateral

Find the perimeter, in units, of the polygon with the given vertices. Round to the nearest tenth.

5.  $A(8, 0), B(-3, 2), C(10, 2)$                       6.  $A(4, -3), B(7, 10), C(-8, 2)$   
 7.  $A(-5, 5), B(5, -5), C(-5, -5)$                       8.  $A(4, -3), B(7, 10), C(-8, 2), D(-1, -5)$   
 9.  $A(-4, -8), B(4, -8), C(4, 0), D(0, 3), E(-4, 0)$

Find the area, in square units, of the polygon with the given vertices. Round to the nearest tenth.

10.  $A(0, 8), B(6, 5), C(-3, 2)$                       11.  $A(-5, 0), B(0, 10), C(5, 0)$   
 12.  $A(7, 0), B(-4, 0), C(-4, 11)$                       13.  $A(-5, 5), B(3, -2), C(-4, -10), D(-12, -3)$   
 14.  $A(-4, 0), B(1, 4), C(5, -1), D(0, -5)$                       15.  $A(0, -3), B(0, 4), C(10, 4), D(10, -3)$

T	I	E	O	H	O	A	U	M	F	Q	A	H	G	O	J
4	33.4	8	43.3	65.4	70	111	51	45.6	26.2	44.3	34.1	23	5	73	27.1
G	M	D	Z	N	Y	P	I	R	O	B	I	L	E	M	S
10.5	17	38.6	$\frac{1}{2}$	27.0	113	10	115	6	22.5	34.0	48.2	41	60.5	50	9