

Puzzle 8-3

Special Pairs of Angles

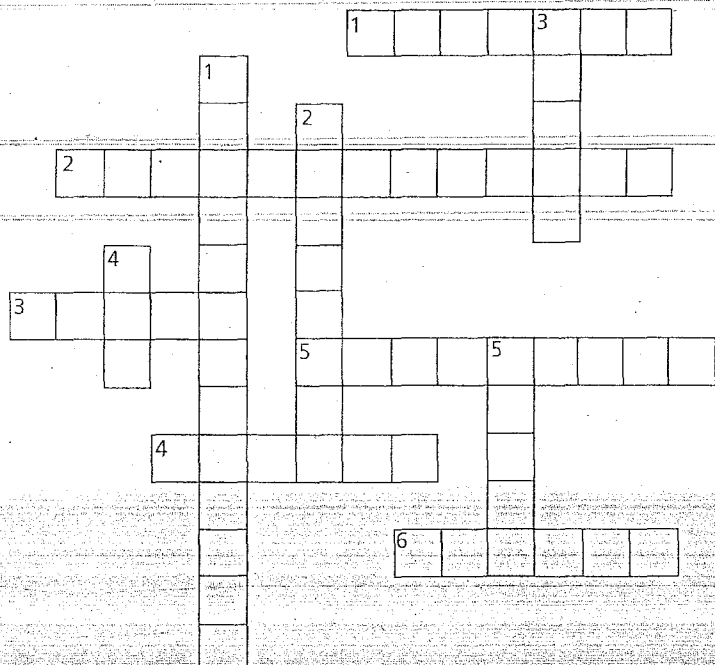
Fill in the blanks in each sentence to solve the crossword puzzle.

Across:

1. The units used to measure angles are _____.
2. If the sum of the measures of two angles is 90° , the angles are _____.
3. Complementary angles are always _____ angles.
4. The terms complementary and supplementary can be used to describe special pairs of _____.
5. Vertical angles are _____ angles.
6. If two angles are supplementary angles and one of the angles is acute, then the other angle must be _____.

Down:

1. If the sum of the measures of two angles is 180° , the angles are _____.
2. _____ angles are congruent angles formed by intersecting lines.
3. Angles with _____ measures are congruent angles.
4. The _____ of the angles in a triangle is 180° .
5. If two angles are supplementary angles and one of the angles measures 90° , the other angle must also be a _____ angle.



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Puzzle 8-5

Exploring and Classifying Polygons

Complete each statement and find your answers in the word search.
For answers that are numerical, be sure to spell out the numbers!

- A hexagon has _____ more sides than a triangle.
- A pentagon has _____ fewer sides than a decagon.
- A(n) _____ is a closed figure that has three or more line segments that do not cross.
- A(n) _____ triangle has three congruent sides.
- An equilateral triangle and a square are both _____ polygons.
- A scalene triangle and a trapezoid are both _____ polygons.
- A(n) _____ is a quadrilateral with two pairs of parallel sides.
- A(n) _____ has one more side than a rhombus.
- A(n) _____ is a parallelogram with four congruent sides.
- An octagon has _____ sides.
- A quadrilateral has four _____.
- A rectangle is a parallelogram with four _____ angles.
- A trapezoid has exactly one pair of _____ sides.
- A rectangle and a trapezoid both have _____ sides.
- A decagon has _____ sides.
- A triangle has three fewer sides than a _____.
- A(n) _____ has one more side than a triangle.
- An octagon has five more sides than a _____.
- A parallelogram with four right angles is a _____.
- Congruent sides have _____ measures.
- A(n) _____ has four more sides than a hexagon.
- A(n) _____ is the only quadrilateral that does not have two pairs of parallel sides.
- A rectangle is a parallelogram with four right _____.
- A(n) _____ has two fewer sides than a decagon.
- A hexagon has _____ sides.

I	E	A	B	E	Q	U	A	L	P	F	I	V	E
R	I	G	H	T	U	C	D	E	E	O	F	T	G
R	G	O	C	T	A	G	O	N	N	U	K	E	H
E	H	Z	S	I	D	E	S	C	T	R	J	N	I
G	T	G	K	T	R	E	C	T	A	N	G	L	E
U	A	B	Y	R	I	S	I	V	G	F	L	M	N
L	P	A	R	A	L	L	E	L	O	G	R	A	M
A	A	N	H	P	A	T	U	D	N	E	P	O	P
R	R	G	O	I	T	R	I	A	N	G	L	E	O
T	A	L	M	Z	E	D	E	C	A	G	O	N	L
H	L	E	B	O	R	E	G	U	L	A	R	G	Y
R	L	S	U	I	A	H	E	X	A	G	O	N	G
E	E	X	S	D	L	W	J	S	I	X	Q	R	O
E	L	E	Q	U	I	L	A	T	E	R	A	L	N

Count the number of unused letters to find
the number of sides in a
TRIACONTAKAIHEPTAGON!

A TRIACONTAKAIHEPTAGON has
_____ sides!

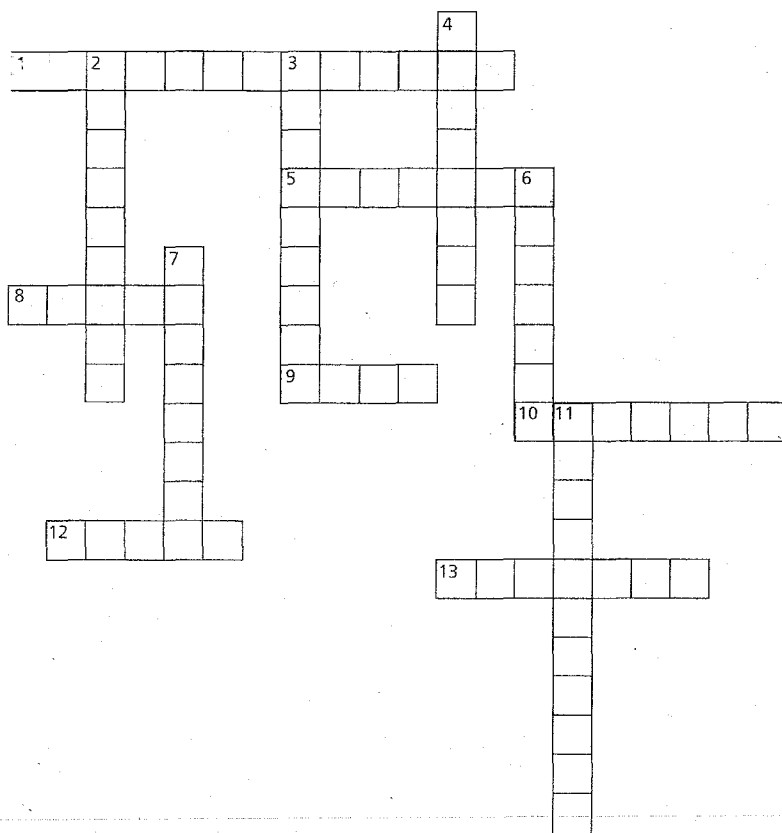
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8F: Vocabulary Review Puzzle For use with the Chapter Review

Study Skill Puzzles are a fun way to learn and review vocabulary.

Complete the crossword puzzle. For help, use the glossary in your textbook.



Across

1. lines that intersect to form right angles
5. figures that have the same shape, but not necessarily the same size
8. angle that measures 90°
9. lines that lie in different planes
10. part of a line
12. angle that measures less than 90°
13. a triangle with no congruent sides

Down

2. parallelogram with four right angles
3. a triangle with at least two sides congruent
4. lines that are in the same plane and do not intersect
6. parallelogram with four congruent sides
7. an angle that measures 180°
11. a triangle with three congruent sides

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