1.4 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

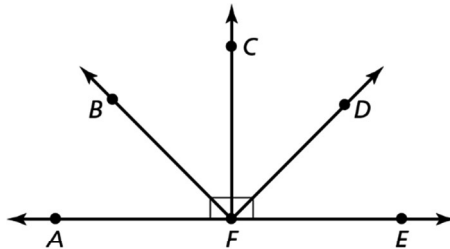| G	M	D	Z	N	Y	P	I	R	O	B	I	L	E	M	S
10.5	17	38.6	$\frac{1}{2}$	27.0	113	10	115	6	22.5	34.0	48.2	41	60.5	50	9

1.5 Puzzle Time

Why Shouldn't You Tell A Pigeon A Secret? Because It …

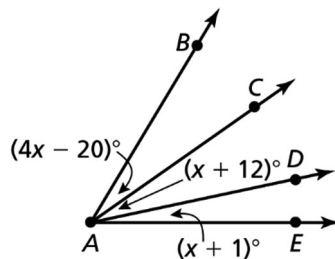Write the letter of each answer in the box containing the exercise number.

Name an angle with the given classification.

1. right angle

2. obtuse angle
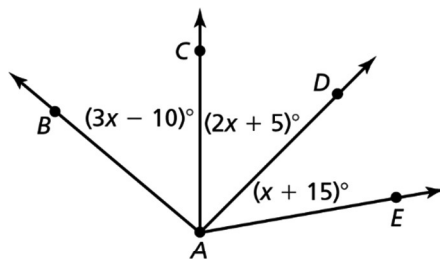
3. straight angle

4. acute angle

Find the indicated angle measure given $m\angle BAE = 59°$.

5. $m\angle BAC$

6. $m\angle CAD$

7. $m\angle DAE$

Find the indicated angle measure given $m\angle BAE = 130°$.

8. $m\angle BAC$

9. $m\angle CAD$

10. $m\angle DAE$

Answers

I. 23°

H. 40°

A. $\angle AFC$

D. 20°

S. 35°

C. 12°

O. 17°

R. $\angle AFD$

U. 70°

I. 45°

P. 11°

R. 24°

T. 37°

A. $\angle AFB$

M. 27°

E. $\angle AFE$

U. 75°

R. 50°

9	10		4		7	1	2	8	6	3	5