Sixth Grade Review 15: **Geometric Shapes & Angles**   Name:

Show all work on a separate sheet of paper.
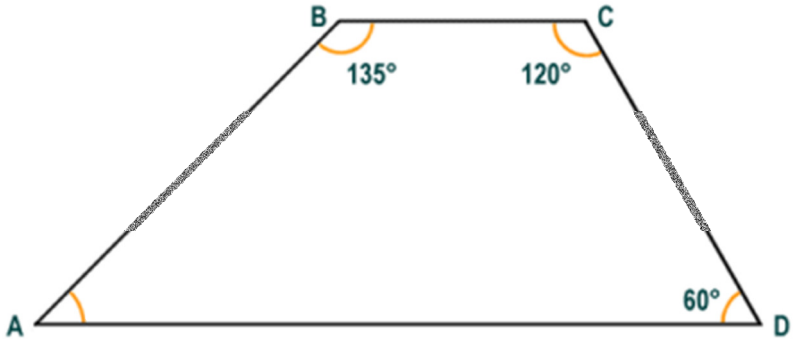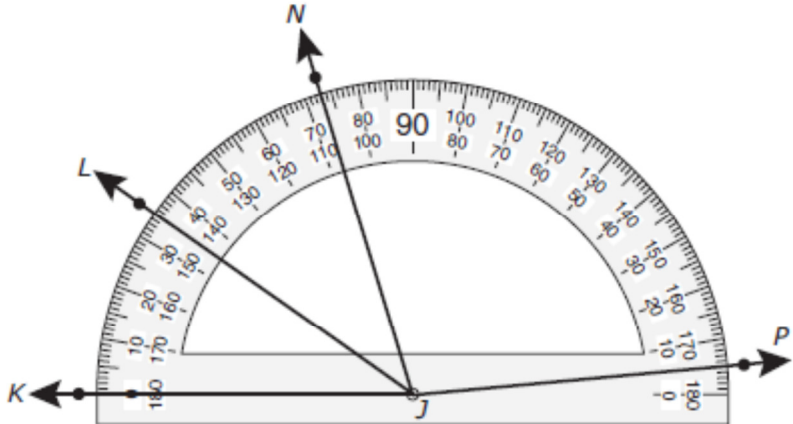
Geometry Word Bank

Obtuse Angle	Right Angle	Acute Angle	Straight Angle	Pentagon	
Octagon	Decagon	Scalene Triangle	Isosceles Triangle	Equilateral Triangle	
Vertex	Regular Polygon	Reflection	Translation	180°	360°

Use the work bank to match the correct word with its definition or picture.

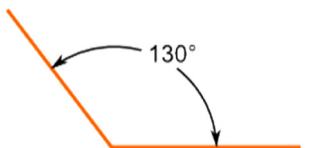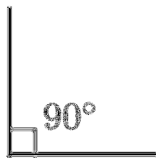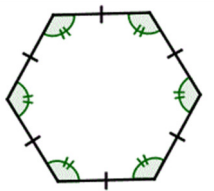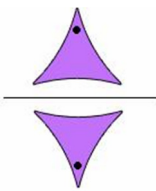|					
1.			2.		
3.			4.		
5.			6.		
7.			8.		
9.			10.		

11.	This is the sum of the angles of any triangle.	
12.	This is the sum of the angles of any quadrilateral.	
13.	This is when a figure slides from one location to another.	
14.	This is a polygon with four more sides than a hexagon.	
15.	This is a polygon with one more side than a rhombus.	
16.	This is a polygon with one less side than a nonagon.	

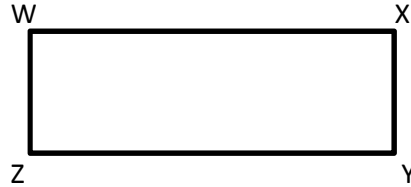|		
17.	Dora added the sum of the angles of an isosceles triangle to the sum of the angles of a rectangle. She then divided the sum by five and added the number of sides of an octagon to the quotient. If she did all this correctly, what was her final value? A. 80 B. 152 C. 116 D. 100	
18.	Which statement about figure *ABCD* is true? A. The difference between the measures of $\angle A$ and $\angle B$ is 75°. B. The difference between the measures of $\angle A$ and $\angle C$ is 15°. C. The sum of the measures of $\angle A$, $\angle C$, and $\angle D$ is 315°. D. The sum of the measures of $\angle A$, $\angle B$, and $\angle C$ is 300°.	
19.	Angle *NJP* and angle *KJL* are shown below. What is the difference between the measure of angle *NJP* and angle *KJN* to the nearest degree? A. 25° B. 29° C. 102° D. 73°	

20.	Which angle appears to have a measure of 170° ? A. ∠WTX B. ∠UTZ C. ∠WTZ D. ∠UTY	
21.	If quadrilateral *WXYZ* is a rectangle, which statement about this rectangle must be true? A. The measures of ∠W and ∠X add up to 90°. B. ∠Y and ∠Z are not congruent. C. The measures of ∠W and ∠Y add up to 180°. D. All the angles are acute.	
22.	What is the measure of ∠Q to the nearest degree? A. 77° B. 117° C. 123° D. 63°	
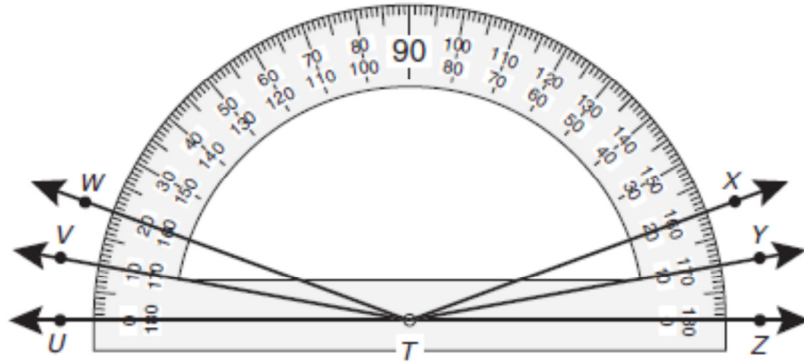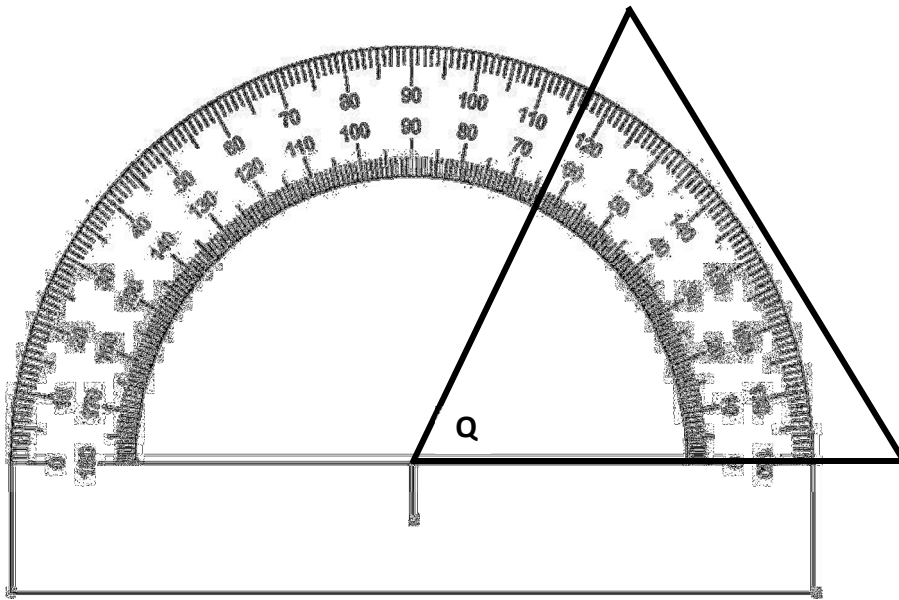
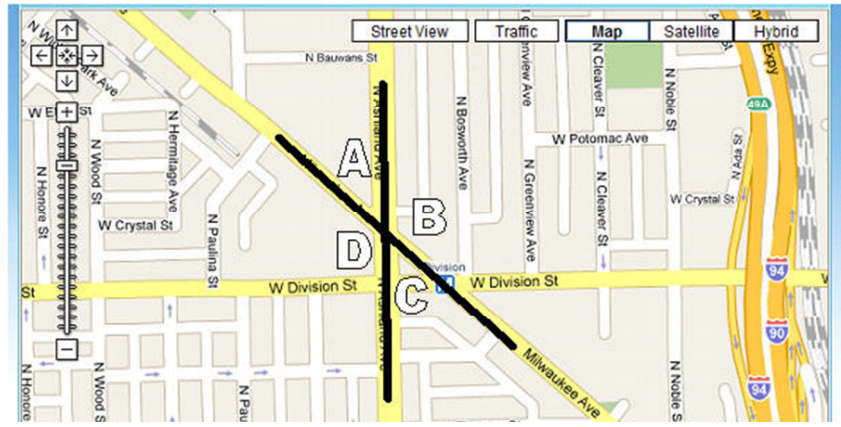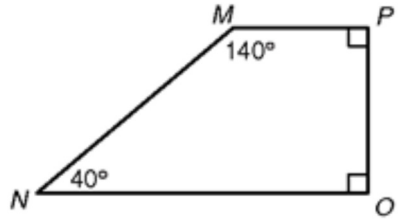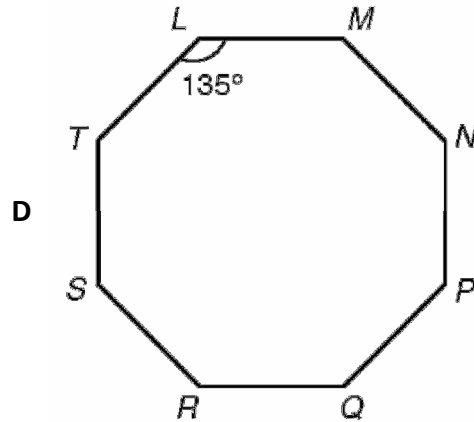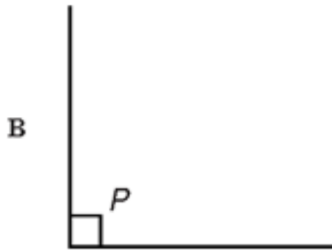|	
23.	In the triangle below, ∠K is congruent to ∠M. L K 32° M What is the measure of ∠L ? A. 116° B. 148° C. 58° D. 64°	
24.	On the street map below what type of angle is Angle A? A. Right B. Straight C. Obtuse D. Acute	
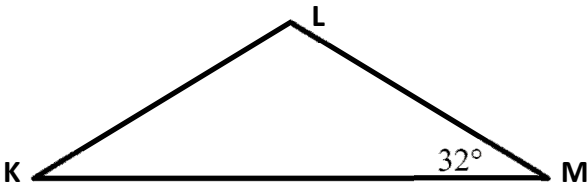
25.	What kind of angle is angle M?
	
	M P
	140°
	
	   40°
	N O
	
	    A. Right B. Straight C. Obtuse D. Acute	

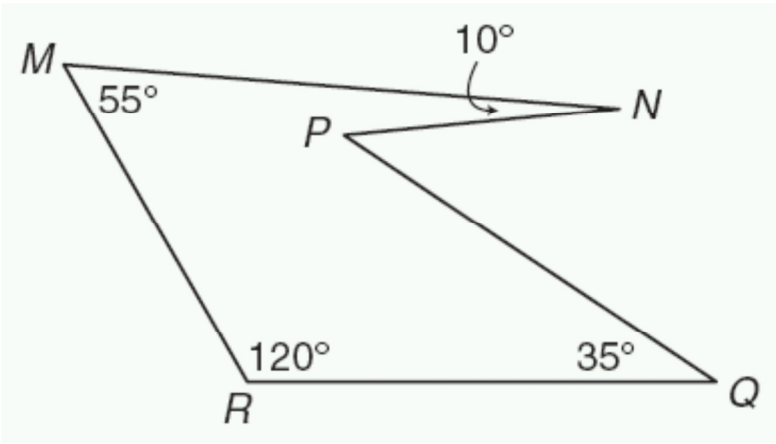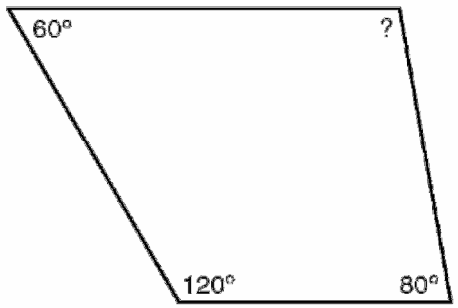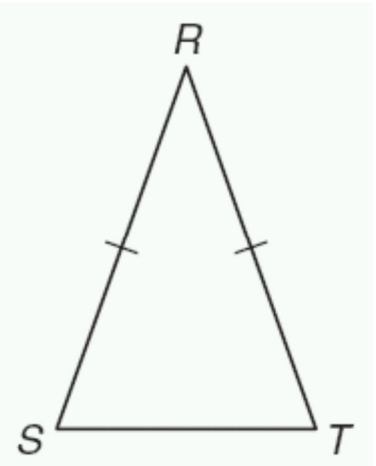| 26. | In which picture is angle P obtuse?

A

B

C

D | |

27.	The table below shows different golf clubs along with their degrees of loft. Based on the data in the table, which of the following statements is true about these golf clubs? **Golf Clubs** 	6 iron	32 degrees
7 iron	36 degrees
8 iron	40 degrees
9 iron	45 degrees
Pitching wedge	50 degrees	 A. All the golf clubs have obtuse angles. B. The pitching wedge is the only golf club with an obtuse angle. C. The 9 iron is the only club with a right angle. D. All the golf clubs have acute angles.	
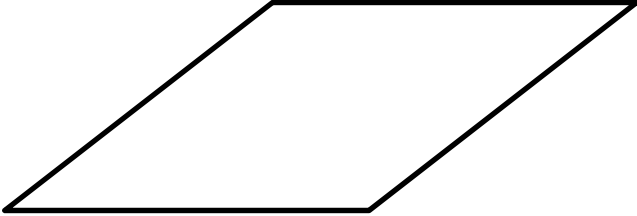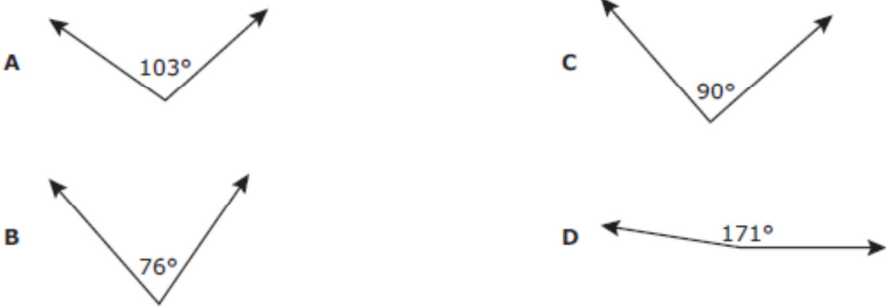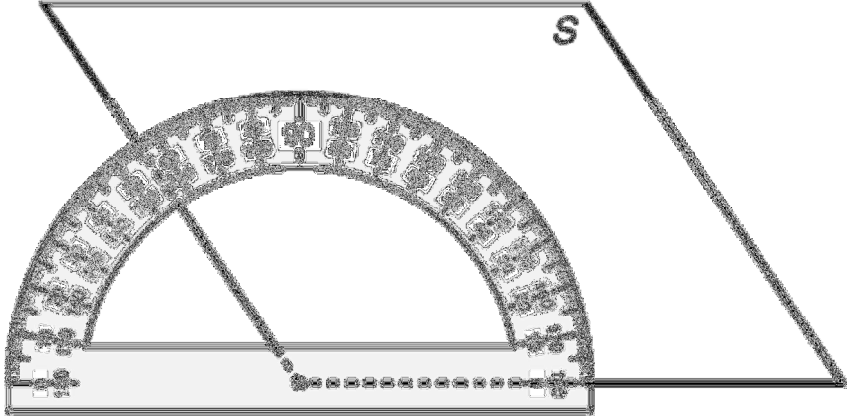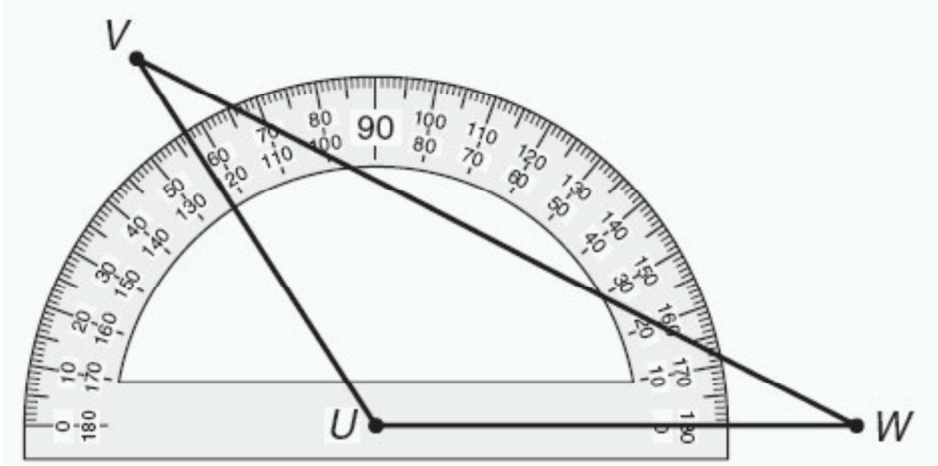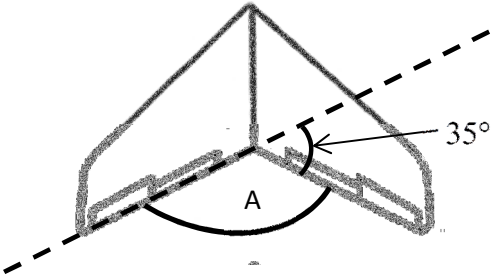
28.	Which angle in the figure is obtuse? 	
29.	A triangle has angles measuring 45° and 55°. What is the measure of the triangle's third angle? A. 80° B. 100° C. 125° D. 135°	
30.	What is the measure of the missing angle? Mr. Sosa's Ranch 	
31.	If angle R is 40 degrees, what is the measure of angle S? 	

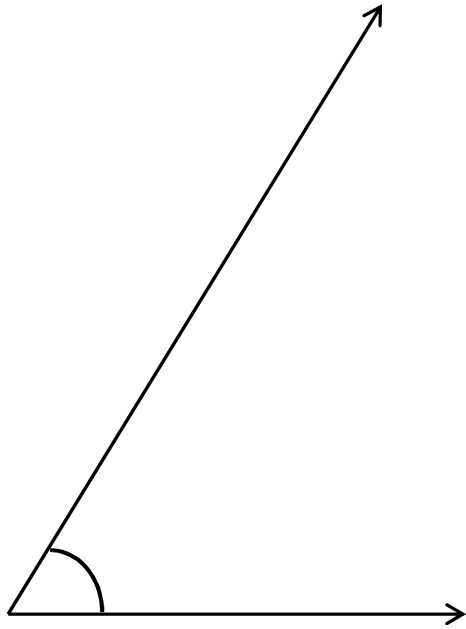|	
32.	Look at the parallelogram shown below. Which of the following could be the measures of the angles, in degrees, of the parallelogram? A. 85, 95, 95, 85 C. 40, 60, 100, 140 B. 40, 140, 40, 140 D. 120, 100, 70, 70
33.	Mr. Underwood drew an angle that has the characteristics listed below. - Its measure is less than 120°. - It is a right angle. Which of the following could be the angle Mr. Underwood drew? A 103° C 90° B 76° D 171°
34.	Find the measure of angle S on the parallelogram below. A. 136° B. 124° C. 64° D. 56°

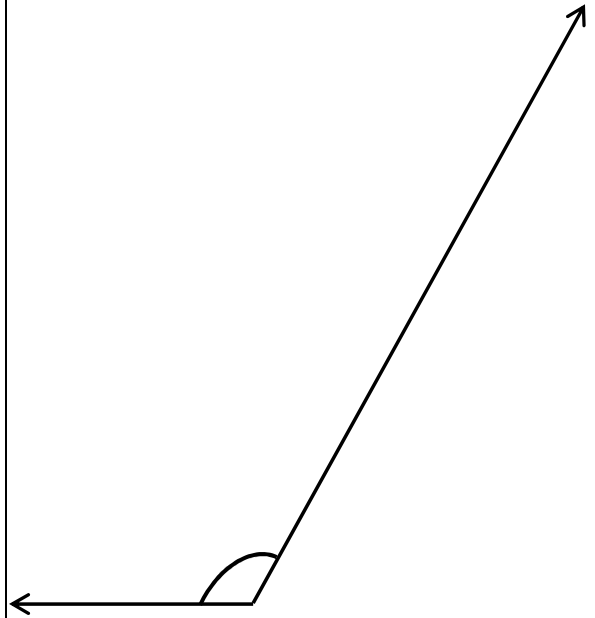|	
35.	Triangle *VUW* is shown below. What is the measure of ∠*VUW* to the nearest degree? A. 123° B. 57° C. 63° D. 137°
36.	Which statement about polygons is NOT true? A. If all the angles of a quadrilateral are congruent, then the shape is a rectangle. B. If one angle on a triangle is obtuse, then both of the other angles are acute. C. If a triangle is isosceles, then at least two of the angles must be equivalent. D. If a quadrilateral has two right angles, then the other two angles must both be acute.
37.	Which of the following statements about angle measures is true? A. An angle that measures 180° is a straight angle. B. An angle that measures 60° is a right angle. C. An angle that measures 100° is an acute angle. D. An angle that measures 82.54° is an obtuse angle.
38.	The picture below shows a moderately swept wing on a plane. Which equation below could be used to find the degrees of angle A? A. $A = 90° - 35°$ B. $A = 90° + 35°$ C. $A = 180° - 35°$ D. $x = 180° + 35°$

Use your protractor to measure the angles below.

39.	40.
Degrees:	Degrees: