Ď

Across

- າ. ≅
- Two coplanar lines with no point in common are ______.
- 5. A 90 degree angle is a ____ angle.
- 8. An angle of 180 degrees is _____.
- 10. A statement that can be proved.
- A ray or line that divides an angle into two equal parts is a _____.
- 16. Lines that form right angles when they meet are ____.
- 17. The endpoint of an angle is the _____.
- 20. Statement accepted without proof.
- 21. AB is a ____. A B
- 22. Two angles whose measures total 180 degrees
- 23. Two lines that are not coplanar and do not intersect are _____.
- 24. An angle less than 90 degrees is _____.
- 26. Tool used to measure angles.
- 27. In 21 across, point A is an ____.
- 28. Figure XYZ is an _____.

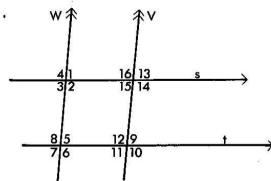
Down

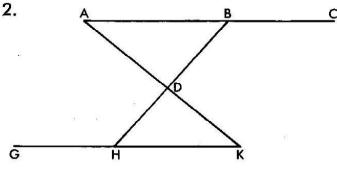
- 1. Points that lie on the same line are ____
- 3. CD is a ____. < c
- 4. A line that cuts two or more parallel lines is a _____.
- 6. Figure EFG is a _____.
- Two angles formed by intersecting lines are
- Lines that meet in one point are said to ______
- 11. The "if" part of an "if . . . then" statement is the $\frac{1}{k}$
- 12. If $\overline{HK} \cong \overline{KL}$ then K is the ____ of \overline{HL} .
- An angle greater than 90 degrees is _____.
- 15. In 12 down HL is a line ____.
- 18. A 40 degree angle is the ____ of a 50 degree angle.
- Two lines that lie in the same ____ are either parallel or intersect.
- 20. In 28 across X is a _____.
- 23. The set of all points is _____
- 25. A ____ shows how a conclusion logically follows from other statements.

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Use diagram 1 to answer questions 1-7 and diagram 2 to answer questions 8-12. To reveal what the great geometer Euclid is supposed to have said to Ptolemy I of Egypt, place the letters in the numbered spaces in the proper blanks below.

1.





w and v are parallel lines. s and t are parallel lines.

3. Angle 3 and angle 5 are ____ angles.

1. Line wis a ___

$$-\frac{1}{27}$$

2. Angle 2 and angle 6 are ____ angles.

4. Angle 14 and angle 9 are ____ interior angles.

$$-\frac{1}{13}$$
 $-\frac{1}{25}$ $-\frac{1}{18}$ $\frac{1}{5}$

5. Angle 1 and angle 5 are ____.

$$\overline{25}$$
 — $\overline{17}$ $\overline{14}$

6. Angle 3 and angle 8 are _____.

	* 0		
 -			22
3		- 1	28

7. Complete this table.

Angle	Measure	Angle	Measure	Angle	Measure	Angle	Measure
1	85°	5		9	85°	13	
2		6		10	 	14	-
3		7		11		15	
4		8	-	12		16	

8. If $\overline{AC} \parallel \overline{GK}$, then $\angle ABD = \angle$ ____.

$$-\frac{}{2}-$$

9. If $\overline{AC} \parallel \overline{GK}$, then $\angle CBD$ and $\angle KHD$ are _____.

10. If $\angle DAB = 40^{\circ}$ and $\angle DKH = 45^{\circ}$, then \overline{AC} and \overline{GK} are not ___.

$$-\frac{1}{4}$$

11. Angle ADH = angle BDK because they are ____ angles. __

12. Assume AC | GK. Complete this table.

Angle	Measure	Angle	Measure	Angle	Measure
ABD	50°	DHK		ADH	
CBD	***	BDA	90°	HDK	8 ·
DHG	·	DAB		DKH	

Euclid's message to Ptolemy I was:

<u> 10 11 12 13 14 </u>

19 20 21 22 23 24 25 26 27 28