1- What do you use to prove that a statement is true?

2- List some examples for #1

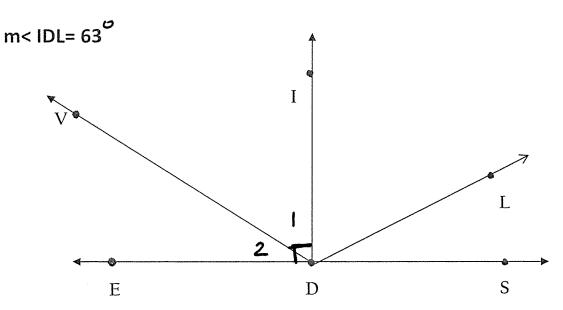
3- Once we have proven a certain theorem can we use it to prove another theorem?

4- What do you know about Angle bisector? Draw a picture to give an example

BD bisects \angle ABC and BE bisects \angle ABD.

If m \angle EBD = 21°, then what is the measure of \angle EBC?

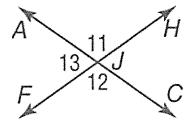
6- DV is the bisector for <EDI



7-

. Find the measure of each numbered angle.

$$m \ge 11 = 11x$$
, $m \ge 13 = 10x + 12$



Complete the proof.

Given: $\overline{PR} \cong \overline{QS}$

Prove: $\overline{PQ} \cong \overline{RS}$

			S
		R	-
P	ā		
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Statements

a.	PR	==	QS

$$b.PR = QS$$

$$c. PQ + QR = PR$$

d. e.
$$PQ + QR = QR + RS$$

Reasons

a.	

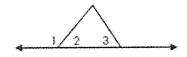
Complete the proofs below by filling in the missing statements and reasons.



Q_ Given: ∠1 and ∠2 form a linear pair

∠1 and ∠3 are supplementary

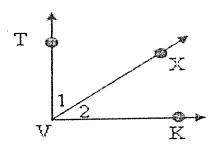




Statements	Reasons
1. ∠1 and ∠2 form a linear pair	
2. ∠1 and ∠2 are supplementary	
3. m∠1 + m∠2 = 180°	
4. ∠1 and ∠3 are supplementary	
5. mz1 + mz3= 180*	
6. m21 + m22 = m21 + m23	
7. mz2 = mz3	
8. ∠2 ≅ ∠3	

O Given: ∠TVK is a right angle.

Prove: $\angle 1$ is complementary to $\angle 2$.



Statements	Reasons
1. LTVK is a right angle	
2. m <tvk 90°<="" =="" td=""><td>2.</td></tvk>	2.
3.	3. Angle addition postulate
4. <1+ <2 = 90°	ef.
5.	5. Definition of Complementary
	angles.

|-Given: $\angle ABC$ is a straight angle Prove: $\angle 1$ is supplementary to $\angle 2$.

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Statements	Reasons
	1. Given
2. ∠1+<2= <abc< td=""><td>2.</td></abc<>	2.
3. <1 and <2 form a linear pair	3.
4. <1 is Supplementary 10	ч.
42	

12-
a- List all the transformations that we learned about.
b- Write a definition for each with specific features
c- Given an example of each
d- List which one of the above transformations represent congruence. Explain your reasoning
e- List which one of the above transformation represent similarity. Explain your reasoning