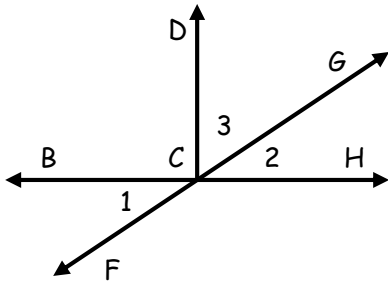


Station 1 - Provide a justification (definition, property, postulate, or theorem) for each statement.



	Statement	Justification
1.	If $BH \perp DC$, then $\angle DCH$ is a right angle	
2.	$FC + CG = FG$	
3.	If C is the midpoint of FG , then $FC = CG$	
4.	$m\angle BCG + m\angle GCH = 180$	
5.	If $\angle DCH$ is a right angle, then $m\angle DCH = 90$	
6.	$m\angle DCG + m\angle GCH = m\angle DCH$	
7.	If $\angle BCD$ is a right angle, then $BH \perp DC$	
8.	If C is the midpoint of FG , then $FC = \frac{1}{2}FG$	
9.	If $\angle 3$ and $\angle 1$ are complementary angles, then $m\angle 3 + m\angle 1 = 90$	
10.	$\angle BCF \cong \angle GCH$	
11.	If $m\angle 1 = m\angle 2$ and $m\angle 2 = m\angle 3$, then $m\angle 1 = m\angle 3$	
12.	If $m\angle BCF + m\angle FCH = m\angle FCH + m\angle HCG$, then $m\angle BCF = m\angle HCG$	
13.	If CG bisects $\angle DCH$, then $\angle DCG \cong \angle GCH$	
14.	If $m\angle DCG + m\angle FCH = 180$, then $\angle DCG$ and $\angle FCH$ are suppl. angles	
15.	If CG bisects $\angle DCH$, then $m\angle DCG = \frac{1}{2}m\angle DCH$.	

Station 2 - Complete each Algebra Connection Problem - Show all work.

1.



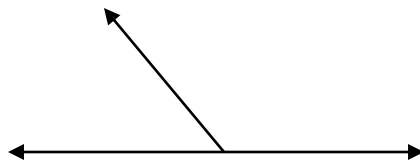
$x =$ _____

$DF =$ _____

$FG =$ _____

$DG =$ _____

2.



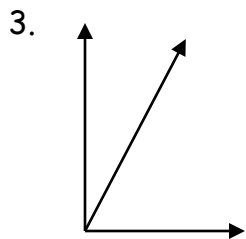
$x =$ _____

$m\angle MNL =$ _____

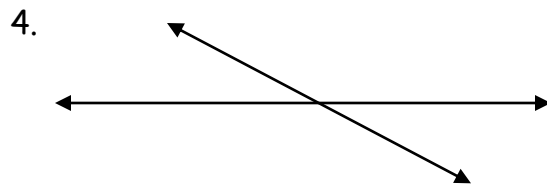
$m\angle LNP =$ _____

$m\angle MNP =$ _____

Station 2 Continued - Complete each Algebra Connection Problem - Show all work.



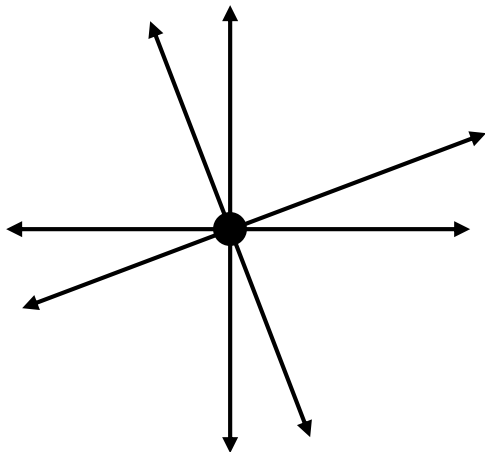
$x =$ _____ $m\angle JKM =$ _____
 $m\angle MKL =$ _____ $m\angle JKL =$ _____



$x =$ _____ $m\angle QSR =$ _____
 $m\angle TSP =$ _____ $m\angle QST =$ _____
 $m\angle RSP =$ _____

Station 3 - Complete the diagram on your answer sheet; fill in all missing angle measures; find the measure of each indicated angle measure.


Given: $__ \perp __;$ $__ \perp __;$ $m\angle BXK =$ _____



Find each angle measure:

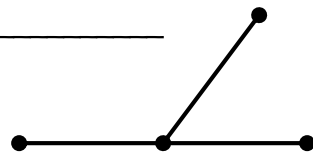
- | | |
|----------------------------|----------------------------|
| 1.) $m\angle KXJ =$ _____ | 11.) $m\angle CXJ =$ _____ |
| 2.) $m\angle JXH =$ _____ | 12.) $m\angle JXF =$ _____ |
| 3.) $m\angle HXG =$ _____ | 13.) $m\angle GXC =$ _____ |
| 4.) $m\angle GXF =$ _____ | 14.) $m\angle CXH =$ _____ |
| 5.) $m\angle FXD =$ _____ | 15.) $m\angle FXB =$ _____ |
| 6.) $m\angle DXC =$ _____ | 16.) $m\angle KXD =$ _____ |
| 7.) $m\angle CXB =$ _____ | 17.) $m\angle DXH =$ _____ |
| 8.) $m\angle KXH =$ _____ | 18.) $m\angle CXF =$ _____ |
| 9.) $m\angle KXF =$ _____ | 19.) $m\angle CXH =$ _____ |
| 10.) $m\angle FXH =$ _____ | 20.) $m\angle BXJ =$ _____ |

Station 4 - Complete each proof.

1. Given: _____ 
 Prove: _____

Statements	Reasons
1. _____	1. _____
2. $WE + __ = ST + __$	2. Addition Property
3. $WE + ES = __$ $ST + ES = __$	3. _____
4. _____	4. _____

2. Given: _____
 Prove: _____



Statements	Reasons
1. _____	1. _____
2. _____	2. Substitution
3. _____	3. _____

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Station 5- Complete each proof.

1. Given: _____

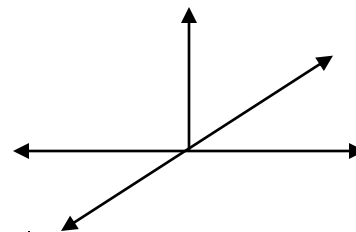
Prove: _____

NOTE: this proof will not necessarily take 8 steps.

Statements	Reasons
1. _____	1. _____
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____
8. _____	8. _____

2. Given: _____

Prove: _____

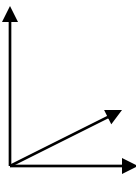


Statements	Reasons
1. _____	1. _____
2. _____	2. _____
3. $m\angle 1 = m\angle 2$	3. _____
4. $m\angle 2 + m\angle 3 = 90$	4. _____
5. $m\angle 2 + m\angle 3 = m\angle DCH$	5. _____
6. _____	6. _____
7. $\angle DCH$ is a right angle	7. _____
8. _____	8. _____

Station 6- Complete each proof.

1. Given: _____

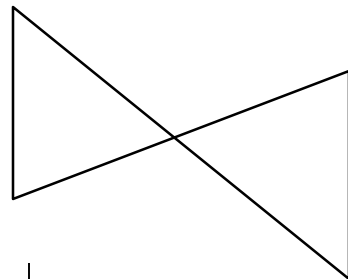
Prove: _____



Statements	Reasons
1. _____	1. _____
2. $\angle BCD$ is a right angle	2. _____
3. _____	3. Definition of a right angle
4. _____	4. Angle Addition Postulate
5. _____	5. Substitution
6. _____	6. _____

2. Given: _____

Prove: _____



Statements	Reasons
1. _____	1. Given
2. _____	2. _____
3. $\angle 2 \cong \angle 4$	3. _____
4. _____	4. Given
5. _____	5. _____