

Name: _____

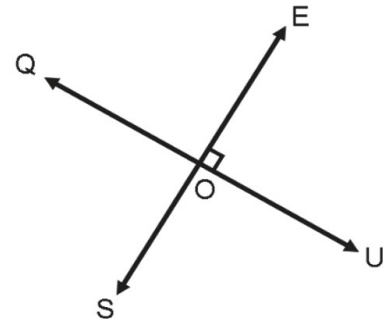
Date Started: _____ Date Finished: _____ Score: _____

Learning Activity Sheet Proving Perpendicular Lines

Prove that the given lines are perpendicular. Write the correct answers in the spaces provided. The first one is done for you.

1. Given that $\angle EOU$ is a right angle, prove that $\overleftrightarrow{ES} \perp \overleftrightarrow{QU}$.

Statements	Reasons
1. $m\angle EOU = 90^\circ$	1. Given
2. $m\angle EOU + m\angle EOQ = 180^\circ$	2.
3.	3.
4.	4.
5.	5.



2. Given that $m\angle GDA = 57^\circ$ and $m\angle ADR = 33^\circ$, prove that $\overleftrightarrow{GS} \perp \overleftrightarrow{ER}$.

Statements	Reasons
1. $m\angle GDA = 57^\circ$ $m\angle ADR = 33^\circ$	1. Given
2. $m\angle GDR = m\angle GDA + m\angle ADR$	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.

