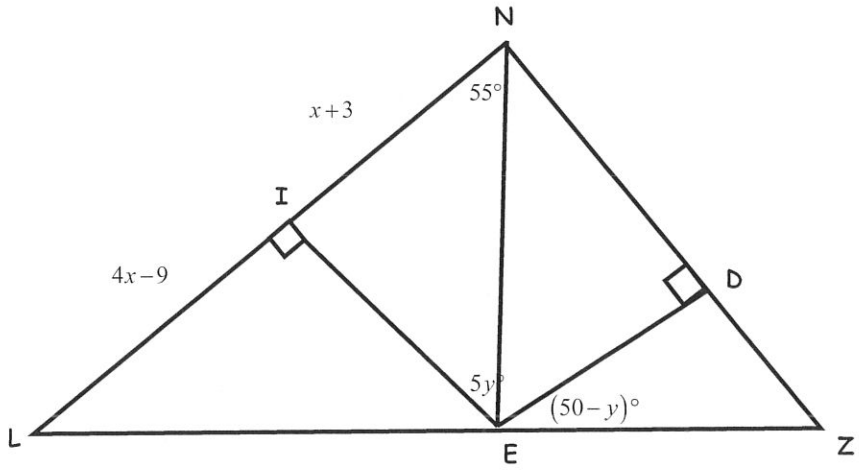
Name: _____ Date: _____ Period: _____

5.1 Review WS (2)

GIVEN: $\overline{EI}$ IS A PERPENDICULAR BISECTOR OF $\overline{LN}$. $\overline{EN}$ IS AN ANGLE BISECTOR OF $\measuredangle LNZ$. $DZ = 5$.

FIND THE MEASURE OF EACH ANGLE OF SIDE LENGTH BELOW:



1. IN = _____

2. $\measuredangle DEN$ = _____

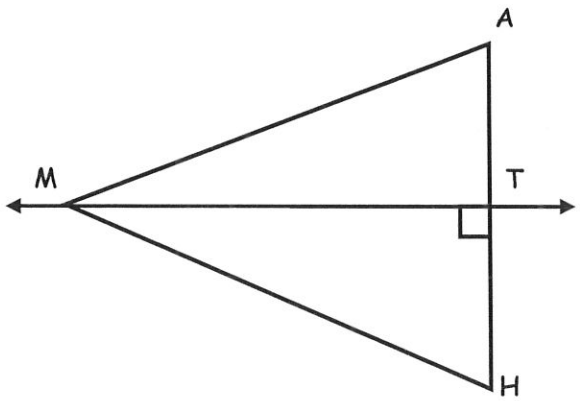
3. $\measuredangle DEZ$ = _____

4. NZ = _____

5. $\measuredangle LEI$ = _____

6. $\measuredangle DZE$ = _____

USE THE DIAGRAM TO THE RIGHT TO ANSWER **7 – 9.**

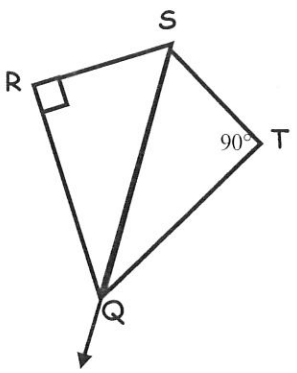


7. Given that $\overleftrightarrow{MT}$ is the perpendicular bisector of $\overline{AH}$ and $MH = 7.5$. Find MA.

8. Given that $\overleftrightarrow{MT}$ is the perpendicular bisector of $\overline{AH}$, $MA = 2x - 8$ and $MH = 3x - 17$, find MH.

9. Given that $MA = 41.1$, $AT = 15.5$, and $MH = 41.1$, find AH.

USE THE DIAGRAM TO THE RIGHT TO ANSWER **10 – 12.**



10. Given that $m\measuredangle RSQ = m\measuredangle TSQ$ and $TQ = 1.7$, find RQ.

11. Given that $m\measuredangle RSQ = 36°$, $RQ = 24$, and $TQ = 24$, find $m\measuredangle RST$.

12. Given that $RQ = TQ$, $m\measuredangle QSR = (2a - 26)°$, and $m\measuredangle QST = (8a - 44)°$, find $m\measuredangle QST$.