

III. For each statement and its next logical conclusion, tell which definition, postulate, or theorem gives the justification.

1. Given: $\overline{AM} \cong \overline{WU}$
 Conclusion: $AM = WU$

Why: SKIP

2. Given: E is the midpoint of \overline{BD}
 Conclusion: $\overline{BE} \cong \overline{ED}$

Why: _____

3. Given: A bisects \overline{CT}
 Conclusion: $\overline{CA} \cong \overline{AT}$

Why: _____

4. Given: $CO = OL$
 Conclusion: $\overline{CO} \cong \overline{OL}$

Why: SKIP

5. Given: $\angle DAY$ and $\angle YAK$ are a linear pair.
 Conclusion: $\angle DAY$ & $\angle YAK$ are supplementary

Why: _____

6. Given: $\angle TOM$ is the supplement of $\angle SUE$
 Conclusion: $m\angle TOM + m\angle SUE = 180^\circ$

Why: _____

7. Given: A and B lie in Plane JOG
 Conclusion: A and B are collinear

Why: skip

8. Given: A is in the interior of $\angle GLD$
 Conclusion: $m\angle GLA + m\angle ALD = m\angle GLD$

Why: _____

9. Given: $\angle 1$ is the complement to $\angle 3$
 Conclusion: $m\angle 1 + m\angle 3 = 90^\circ$

Why: _____

10. Given: $\angle HAM$ is vertical to $\angle EAT$
 Conclusion: $\angle HAM \cong \angle EAT$

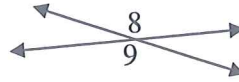
Why: _____



11. Given:

Conclusion: U is the midpoint of \overline{RN}

Why: _____



12. Given:

Conclusion: $\angle 8$ and $\angle 9$ are vertical

Why: _____

13. Given: $m\angle NAT + m\angle WED = 90^\circ$
 Conclusion: $\angle NAT$ & $\angle WED$ are complementary

Why: _____

14. Given: $\overline{FA} \cong \overline{RM}$
 Conclusion: $FA = RM$

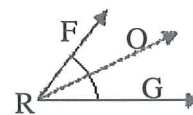
Why: skip

15. Given: $MA = TH$
 Conclusion: $\overline{MA} \cong \overline{TH}$

Why: skip

16. Given: $m\angle AFD + m\angle BAT = 180^\circ$
 Conclusion: $\angle AFD$ & $\angle BAT$ are supplementary

Why: _____



RO bisects $\angle FRG$.

17. Given:

Conclusion: $\angle FRO \cong \angle ORG$

Why: _____

18. Given: $m\angle 2 = m\angle 6$
 Conclusion: $\angle 2 \cong \angle 6$

Why: skip

Key

III. For each statement and its next logical conclusion, tell which definition, postulate, or theorem gives the justification.

1. Given: $\overline{AM} \cong \overline{WU}$
Conclusion: $AM = WU$

Why: Skip

2. Given: E is the midpoint of \overline{BD}
Conclusion: $\overline{BE} \cong \overline{ED}$

Why: def of midpoint

3. Given: A bisects \overline{CT}
Conclusion: $\overline{CA} \cong \overline{AT}$

Why: def of bisect

4. Given: $CO = OL$
Conclusion: $\overline{CO} \cong \overline{OL}$

Why: Skip

5. Given: $\angle DAY$ and $\angle YAK$ are a linear pair.
Conclusion: $\angle DAY$ & $\angle YAK$ are supplementary

Why: linear pairs are suppl.

6. Given: $\angle TOM$ is the supplement of $\angle SUE$
Conclusion: $m\angle TOM + m\angle SUE = 180^\circ$

Why: def of suppl.

7. Given: A and B lie in Plane JOG
Conclusion: A and B are collinear

Why: Skip

8. Given: A is in the interior of $\angle GLD$
Conclusion: $m\angle GLA + m\angle ALD = m\angle GLD$

Why: angle addition

9. Given: $\angle 1$ is the complement to $\angle 3$
Conclusion: $m\angle 1 + m\angle 3 = 90^\circ$

Why: def of compl.

10. Given: $\angle HAM$ is vertical to $\angle EAT$
Conclusion: $\angle HAM \cong \angle EAT$

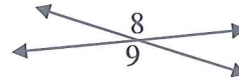
Why: vertical \angle s are \cong



11. Given:

Conclusion: U is the midpoint of \overline{RN}

Why: def of midpoint



12. Given:

Conclusion: $\angle 8$ and $\angle 9$ are vertical

Why: def of vertical

13. Given: $m\angle NAT + m\angle WED = 90^\circ$
Conclusion: $\angle NAT$ & $\angle WED$ are complementary

Why: def of compl.

14. Given: $\overline{FA} \cong \overline{RM}$
Conclusion: $FA = RM$

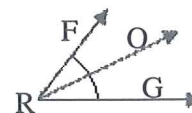
Why: Skip

15. Given: $MA = TH$
Conclusion: $\overline{MA} \cong \overline{TH}$

Why: Skip

16. Given: $m\angle AFD + m\angle BAT = 180^\circ$
Conclusion: $\angle AFD$ & $\angle BAT$ are supplementary

Why: def of suppl.



17. Given:

Conclusion: $\angle FRO \cong \angle ORG$

Why: def of \angle bisector

18. Given: $m\angle 2 = m\angle 6$
Conclusion: $\angle 2 \cong \angle 6$

Why: Skip