

Making Conclusions

1. Given: $\overline{TO} \cong \overline{AN}$

Conclusion: $TO = AN$

Justification: Definition of \cong segments

2. Given: E is the midpoint of \overline{BD}

Conclusion: $\overline{BE} \cong \overline{ED}$

Justification: Definition of a midpoint

3. Given: A bisects \overline{CT}

Conclusion: $\overline{CA} \cong \overline{AT}$

Justification: Definition of a segment bisector

4. Given: $CO = OL$

Conclusion: $\overline{CO} \cong \overline{OL}$

Justification: Definition of \cong segments

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

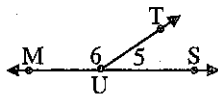
Conclusion: $m\angle DAY + m\angle YAK = 180^\circ$

Justification: Linear Pair Postulate

6. Given: $\angle TOM$ is the supplement of $\angle SUE$

Conclusion: $m\angle TOM + m\angle SUE = 180^\circ$

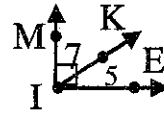
Justification: Definition of supplementary angles



7. Given:

Conclusion: $m\angle 6 + m\angle 5 = 180^\circ$

Justification: Linear Pair Postulate



8. Given:

Conclusion: $m\angle 7 + m\angle 5 = m\angle MIE$

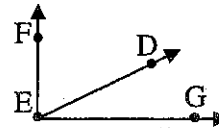
Justification: Angle Addition Postulate



9. Given:

Conclusion: $EF + FG = EG$

Justification: Segment Addition Postulate



10. Given:

Conclusion: $m\angle FED + m\angle DEG = m\angle FEG$

Justification: Angle Addition Postulate

11. Given: $m\angle ABC = m\angle HIJ$

Conclusion: $\angle ABC \cong \angle HIJ$

Justification: Definition of \cong angles

12. Given: $\angle CAT$ and $\angle RAP$ are vertical angles.

Conclusion: $\angle CAT \cong \angle RAP$

Justification: Vertical Angles \cong Theorem

13. Given: $\angle SAT \cong \angle ACT$

Conclusion: $m\angle SAT = m\angle ACT$

Justification: Definition of \cong angles

14. Given: A is in the interior of $\angle GLD$

Conclusion: $m\angle GLA + m\angle ALD = m\angle GLD$

Justification: Angle Addition Postulate