

3.8 Hw Key

8. $\overline{BD} \cong \overline{CE}$ (Both 3 in)
 $\overline{BC} \cong \overline{DE}$ (Both 4 in)
 $\overline{DC} \cong \overline{DC}$ (Reflexive Prop)
 $\triangle BCD \cong \triangle EDC$ by SSS

9. Given: $\overline{GK} \cong \overline{GL}$
 $\overline{KT} \cong \overline{JT}$
by Reflexive Property: $\overline{GT} \cong \overline{GT}$
 $\triangle GJK \cong \triangle GJL$ by SSS

10. It's given $\angle C \cong \angle B$ & $\overline{EC} \cong \overline{DB}$. We
can assume $\overline{CB} \cong \overline{CB}$ by reflexive prop.
 $\triangle ECB \cong \triangle DBC$ by SAS

11. $NQ = NM = 3$
 $m\angle M = m\angle Q = 90^\circ$
• Sides are \cong & included \angle is \cong so $\triangle MNP \cong$
 $\triangle QNP$ by SAS

12. $YZ = 24$ $\overline{XY} \cong \overline{JT}$
 $ST = 20$ $\overline{YZ} \cong \overline{TU}$ $\triangle XYZ \cong \triangle JTU$ by
 $SU = 22$ $\overline{XZ} \cong \overline{JU}$ SSS

13. a) Given
b) $\overline{DB} \cong \overline{CB}$
c) $\overline{AB} \perp \overline{DC}$
d) Def. of \perp
e) Rt \angle 's Th
f) $\overline{AB} \cong \overline{AB}$
g) SAS

14. SAS

15. SAS

16. None

17. None

18. To use SSS you need to know $\overline{AB} \cong \overline{DE}$.
To use SAS you need to know $\overline{CB} \cong \overline{CE}$.

21. a) Given

b) Def. of \cong

c) $m\angle WVY = m\angle ZYU$

d) Def. of \cong

e) Given

f) $\overline{VY} \cong \overline{YU}$

g) SAS