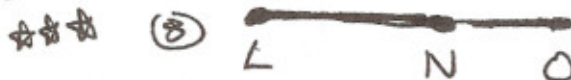


Name _____
 Due Date _____
 Block _____

Practice Intro to Proof Test #1.1

★ = Basic ★★ = Medium ★★★ = Difficult

★ ① Given: $AB = CD$
 Prove: $AB + GH = CD + GH$



★ ② Given: $m\angle ABC = m\angle DEF$
 $\angle ABC \cong \angle DEF$
 Prove: $\angle GHI \cong \angle DEF$



Given: $\overline{LN} \cong \overline{RT}$
 $\overline{NO} \cong \overline{TS}$
 Prove: $\overline{LO} \cong \overline{RS}$


★★ ③ Given: $\overline{AB} \cong \overline{CD}$
 $\overline{CD} \cong \overline{EF}$
 $\overline{EF} \cong \overline{GH}$
 Prove: $\overline{GH} \cong \overline{AB}$

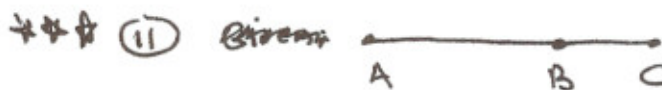


Given: $AB = CD$
 Prove: $AC = BD$

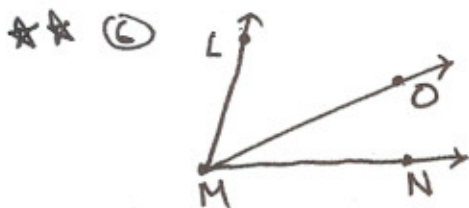
★★ ④ Given: $LM = NO$
 $GH = PO$
 Prove: $LM = \frac{NO}{PO} \cdot GH$

★★ ⑩ Given: $ON = PR$
 $LM = TQ$
 Prove: $\frac{ON - TQ}{PR} = \frac{PR - LM}{ON}$

★★ ⑤ 
 Given: $DO = 7$
 $OG = 3$
 Prove: $DG = 10$



Given: $BC = 4$
 $AB = 2 \cdot BC$
 Prove: $AC = 12$



Given: $m\angle OMN = 24^\circ$
 $m\angle LMN = 68^\circ$
 Prove: $m\angle LMO = 44^\circ$

★★ ⑦ Given: $AB + CD = EF$
 Prove: $AB = EF - CD$