

□ p.34 CE #1-5, 8-11  
A #11 □ p.40 CE #1-10

Key

□ p.34 CE #1-5, 8-11

1. If  $\frac{2x-1=5}{H}$ , then  $\frac{x=3}{C}$ .

2. If  $\frac{\text{she's smart}}{H}$ , then  $\frac{\text{I'm a genius}}{C}$ .

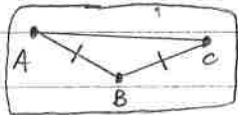
3.  $\frac{8y=40}{H}$  implies  $\frac{y=5}{C}$ .

4.  $\frac{RS = \frac{1}{2}RT}{C}$  if  $\frac{S \text{ is the midpoint of } \overline{RT}}{H}$ .

5.  $\frac{\angle 1 \cong \angle 2}{C}$  if  $\frac{m\angle 1 = m\angle 2}{H}$ .

8. If  $\frac{\overline{AB} \cong \overline{BC}}{H}$ , then  $\frac{B \text{ is the midpoint of } \overline{AC}}{C}$ . **False**

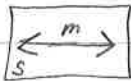
CE:



$\overline{AB} \cong \overline{BC}$  but B is not the midpoint of  $\overline{AC}$ .  
Hyp True Conclusion False

9. If a line lies in a vertical plane, then  $\frac{\text{the line is vertical}}{C}$ . **False**

CE:



Plane S is a vertical plane but m is not a vertical line.  
Hyp True Conclusion False

10. If a number is divisible by 4, then  $\frac{\text{it is divisible by 6}}{C}$ . **False**

CE: **8**

8 is divisible by 4 but it is not divisible by 6.  
Hyp True Conclusion False

11. If  $\frac{x^2=49}{H}$ , then  $\frac{x=7}{C}$ . **False**

CE:  **$x = -7$**

$(-7)^2 = 49$  but  $-7 \neq 7$ .  
Hyp True Conclusion False

27 p. 40 CE # 1-10

Key

Statement

Property

1.  $\angle P \cong \angle P$  [ Reflexive Property of Congruence ]
2. If  $\overline{AB} \cong \overline{CD}$  and  $\overline{CD} \cong \overline{EF}$ , then  $\overline{AB} \cong \overline{EF}$ . [ Transitive Property of Congruence ]
3. If  $RS = TW$ , then  $TW = RS$ . [ Symmetric Property of Equality ]
4. If  $x + 5 = 16$ , then  $x = 11$ . [ Subtraction Property of Equality ]
5. If  $5y = -20$ , then  $y = -4$ . [ Division Property of Equality ]
6. If  $\frac{z}{5} = 10$ , then  $z = 50$ . [ Multiplication Property of Equality ]
7.  $2(a+b) = 2a + 2b$  [ Distributive Property ]
8. If  $2z - 5 = -3$ , then  $2z = 2$ . [ Addition Property of Equality ]
9. If  $2x + y = 70$  and  $y = 3x$ , then  $2x + 3x = 70$ . [ Substitution Property of Equality ]
10. If  $AB = CD$ ,  $CD = EF$ , and  $EF = 23$ , then  $AB = 23$ .  
[ Transitive Property of Equality ]