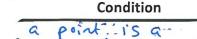
Name:	
Date:	

Drawing Conclusions -Midpoints, Bisectors, Transitive, Reflexive

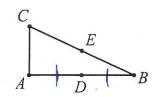
As a conditional:





, then

Ex:



Known Fact: D is the midpoint of \overline{AB} .

Which conclusion can now be called a fact?

Conclusion A: $\overline{AD} \cong \overline{DB}$

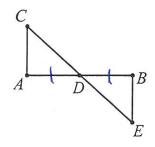
Conclusion B: $\overline{CE} \cong \overline{EB}$

Segment Bisector: goes through the

As a conditional:

Condition

Ex:



Known Fact: \overline{CE} bisects \overline{AB} .

Which conclusion can now be called a fact?

Conclusion A: D is midpoint of \overline{AB} .

Conclusion B: D is midpoint of CE.

Angle Bisector: 6 an angle into 2 = 6's.

As a conditional:

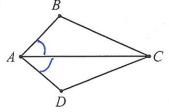
Condition

is an segrend angle

Conclusion

angle into 2

Ex:



e Condition Known Fact: \overline{AC} bisects $\angle BAD$.

Which conclusion can now be called a fact?

Conclusion A: $\angle BAC \cong \angle DAC$.

Conclusion B: $\angle BCA \cong \angle DCA$.

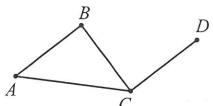
Transitive Property of Equality: If a=b and b=C, then a=C (Chain Rule)

Known Facts: AB = BC = link

Known Facts: $\overline{AB} \simeq \overline{BC}$





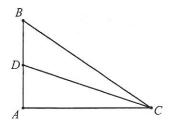


Which conclusion can now be called a fact?

Conclusion A: $\overline{AB} \cong \overline{CD}$

Conclusion B: $\overline{AB} \cong \overline{AC}$

Reflexive Property of Equality: a figure is always = to itself.



Known Facts: (only the picture)

Which conclusions can now be called a fact?

Conclusion A: $\angle A \cong \angle A$

Conclusion B: $\overline{AC} \cong \overline{AC}$

Conclusion C: D is the midpoint of \overline{AB} .

