

12. Congruent (\cong) means "the same size and shape." Equal (=) refers to numerical values. Fill in the following blanks with \cong or =. Use the diagrams at the right to assist you.				13. If U is between T and B, find the value of x and the lengths of the segments. (Hint: Draw a picture for each problem with the given information and then write the equation to solve.)	
a. 4 + 6 10		Y ,	V.	**"between" implies on the same line as t	
b. $\Delta ZYX ___ \Delta WVU$		$\neq \chi$	$\rightarrow \chi$	a. $TU = 2x$, $UB = 3x + 1$, $TB = 21$	$\begin{array}{l} x = ___\\ TU = ___\end{array}$
c. $4x + 8 _ 4(x + 2)$		z <u>∕ ∖</u> x	w <u> </u> ∪		UB =
d. <i>ABCD</i>	5	5	5		<i>x</i> =
e. <u>AB</u> <u>CD</u>	A	В	C D	b. $TU = 4x - 1$, $UB = 2x - 1$, $TB = 5x$	$x = _$ $TU = _$
					<i>UB</i> =
14. Given what you know about trian variables:	ngles, right angles,	and straight angles, s	olve for the	15. The angles around parallel lines have some propertiescan you figure them out? Find the values of a, b, c, and d.	really interesting
				a =	
A 100 - 1	a.			<i>b</i> =	
	E C C C C C C C C C C C C C C C C C C C	A # / B		<i>c</i> =	
		0		$d = ___$	
				Side Note: The little arrows on the two seg	ments are Geometry
		10		notation for saying "these segments are para	allel."
16. Let $\overline{AB} \cong \overline{BC}$.				17. Let $\overline{AB} \cong \overline{BC}$ and $AC = 3x - 31$	
		x = A	IB =		<i>x</i> =
2x-8 $x+1$	17	$BC = ___ A$		• $x + 6$ • • •	AB =
A B	C			A B C	BC =
					AC =