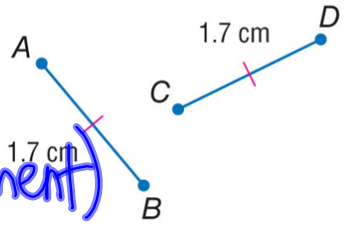
*No bar → measures

* Remember - A segment is a portion of a line (it has endpoints).

figures are congruent
measures are equal

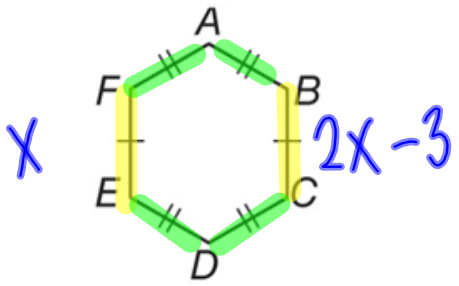
KeyConcept Congruent Segments

Words	Congruent segments have the same measure.
Symbols	≅ is read *is congruent to*. Red slashes on the figure also indicate congruence.
Example	$\overline{AB} \cong \overline{CD}$ (congruency statement)



" Line segment AB is congruent to line segment CD.

AB = CD



$X = 2x-3$

True or false?

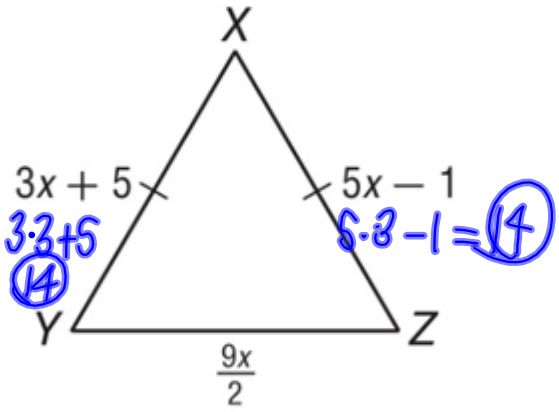
4. $\overline{AB} \cong \overline{BC}$ F

5. $\overline{ED} \cong \overline{DC}$ T

6. $\overline{EF} \cong \overline{BC}$ T

Segments can be congruent.
Measures can be equal.

Find the perimeter of ΔXYZ. _____



① Solve for x:

$3x+5=5x-1$

$2x=6$

$x=3$

② Find lengths

$3\cdot3+5=14$ $\quad 5\cdot3-1=14$ $\quad \frac{9\cdot3}{2}=\frac{9}{2}=4\frac{1}{2}$

③ $P=14+14+4\frac{1}{2}=32\frac{1}{2}$ units