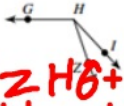


10.8.15

Statements	Justifications	Statements	Justifications
1. $8(1+5x)+5=13+5x$	Distribute	2. $m\angle ZHG = 11x - 1$, $m\angle IHZ = 24^\circ$, and $m\angle IHG = 12x + 13$. Find $m\angle IHG$.	Substitution
$8+40x+5=13+5x$	CLT		GLT
$13+40x=13+5x$	Subtract	$11x-1+24=12x+13$	Sub P.O.E
$40x=5x$	Divide	$11x+23=12x+13$	Sub P.O.E
$5-5$		$11x+10=12x+13$	Div P.O.E
$35x=0$		$10=1x$	Find IHB
$x=0$		$x=10$	Substitution

Write an equation to model the situation. Then solve using your justifications.

3. The distance from Baltimore to New York is about 171 mi. This is about 189 mi less than the distance from Baltimore to Boston. How far is Baltimore from Boston if you stop in New York along the way?

$Ba \rightarrow N$
 $=$
 171 mi
 189 less than
 $Ba \rightarrow Boston$

$Distance$
 $From Ba$
 $to Boston$
 $Stopping at$
 NY

171 mi
 $x-189 \text{ mi}$
 $171 = x - 189$
 $+189$
 $360 = x$

$Baltimore$ is 360 miles
 $away from$
 $Boston$ if you
 $stop in NY$ along
 $the way$

