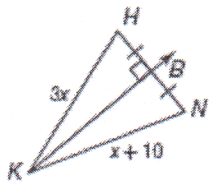
Name: Key Date:

Station 4

Find the measure asked for in each problem.

1. KN



$KH = KN$

$3x = x + 10$

$2x = 10$

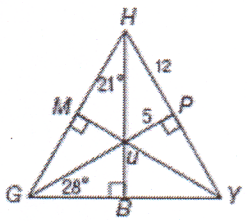
$x = 5$

$KN = 5 + 10$

$KN = 15$

2. **Point U is the incenter of $\triangle GHY$.**

Find HU



$5^2 + 12^2 = HU^2$

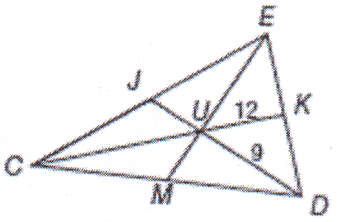
$25 + 144 = HU^2$

$\sqrt{169} = \sqrt{HU^2}$

$13 = HU$

3. **In $\triangle CDE$, U is the centroid, $UK = 12$, $EM = 21$, and $UD = 9$. Find each measure.**

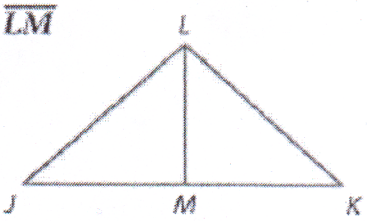
Find CU



$CU = 12(2)$

$CU = 24$

CCSS **ARGUMENTS** Use the given information to determine whether $\overline{LM}$ is a *perpendicular bisector*, *median*, and/or an *altitude* of $\triangle JKL$.



4. $\overline{LM} \perp \overline{JK}$ Altitude

5. $\overline{JM} \cong \overline{KM}$ Median

6. $\overline{LM} \perp \overline{JK}$ and $\overline{JL} \cong \overline{KL}$ perpendicular bisector, Altitude, Median