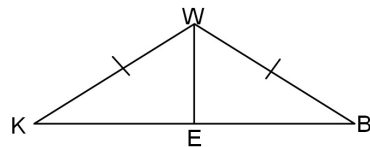


Geometry Bellwork Friday, December 6, 2013

For 1 and 2, Each diagram shows two congruent triangles. Fill in the blanks and give a reason for each statement then write a congruence statement for each pair of triangles.

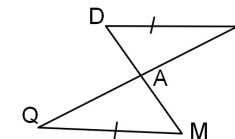
1. \overline{WE} is a \perp bisector of \overline{KB} & $\angle K \cong \angle B$



- $\angle K \cong \angle B$ Reason:
- $\angle KEW \cong \angle BEW$ Reason:
- $\angle _____ \cong \angle _____$ Reason:
- $\overline{KW} \cong \overline{BW}$ Reason:
- $\overline{KE} \cong \overline{BE}$ Reason:
- $_____ \cong _____$ Reason:

$$\triangle _____ \cong \triangle _____$$

2. $\overline{DC} \parallel \overline{MQ}$ \overline{CQ} and \overline{DM} bisect each other.



- $\angle MDC \cong \angle DMQ$ Reason:
- $\angle DCQ \cong \angle MQC$ Reason:
- $\angle _____ \cong \angle _____$ Reason:
- $\overline{DC} \cong \overline{MQ}$ Reason:
- $\overline{DA} \cong \overline{MA}$ Reason:
- $_____ \cong _____$ Reason:

$$\triangle _____ \cong \triangle _____$$

Given: $\triangle JWC \cong \triangle EKG$ $m\angle W = 62^\circ$ $m\angle E = 70^\circ$

The perimeter of $\triangle EKG = 33$

$KG = 13$ $JC = 11$

Find the measure of the remaining angles and the lengths of the remaining sides of the two triangles.

$$m\angle J = \quad m\angle C =$$

$$m\angle K = \quad m\angle G =$$

$$JW = \quad WC =$$

$$EK = \quad EG =$$