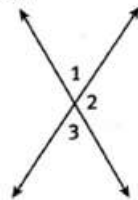


Tues Jan 14, 2014 Angle Practice
Show your work in your Comp Bk.

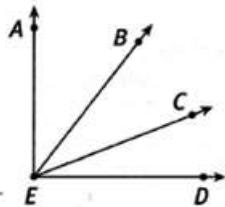
- Given: Point K is between points H and J , $HK = x - 5$, $KJ = 5x - 12$ and $HJ = 25$. Find the value of x .
 a. 7 b. 2 c. 6 d. 9
- If K is the midpoint of \overline{HJ} , $HK = x + 6$, and $HJ = 5x - 6$, then $KJ = \underline{\quad?}$.
 a. 6 b. 3 c. 12 d. 9
- Point D is in the interior of $\angle ABC$, $m\angle ABC = 10x - 7$, $m\angle ABD = 6x + 5$, and $m\angle DBC = 36^\circ$. What is $m\angle ABD$?
 a. 3° b. 23° c. 17° d. 77°
- If $\angle P$ and $\angle Q$ are complementary, $m\angle P = 5x + 3$, and $m\angle Q = x + 3$, then $x = \underline{\quad?}$.
 a. 30 b. 29 c. 0 d. 14
- Ray QS bisects $\angle PQR$. If $m\angle PQS = 5x$ and $m\angle RQS = 2x + 6$, then $m\angle PQR = \underline{\quad?}$.
 a. 10° b. 20° c. 6° d. 2°

Use the given diagram and information to determine the missing measures.

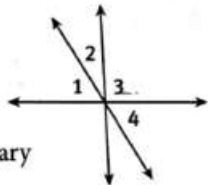
- Given: $m\angle 1 = 4x + 30$ and $m\angle 3 = 2x + 48$
 a. $x = \underline{\quad}$
 b. $m\angle 3 = \underline{\quad}$ c. $m\angle 2 = \underline{\quad}$



- Given: $\overrightarrow{EA} \perp \overrightarrow{ED}$, \overrightarrow{EB} bisects $\angle AEC$, $m\angle AEB = 4x + 1$, and $m\angle CED = 3x$.
 a. $x = \underline{\quad}$
 b. $m\angle BEC = \underline{\quad}$

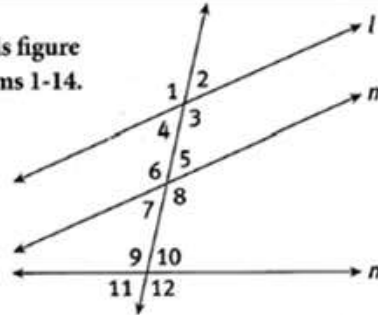


- Given: $m\angle 1 = 2x + 8$, $m\angle 2 = x + 4$, and $m\angle 3 = 3x + 18$
 a. $x = \underline{\quad}$
 b. $m\angle 4 = \underline{\quad}$
 c. Is $\angle 4$ complementary to $\angle 2$? Explain.



Show all work in your Comp Bk.
Tue Jan 14, 2014 Angle Practice#2

Use this figure for Items 1-14.



- List all pairs of alternate interior angles.
- List all pairs of same-side interior angles.
- If $l \parallel m$ and $m\angle 5 = 80^\circ$, then what is $m\angle 2$?
 a. 100° c. 80°
 b. 50° d. Not enough information
- If $l \parallel m$ and $m\angle 6 = 110^\circ$, then what is $m\angle 3$?
 a. 70° c. 80°
 b. 110° d. Not enough information
- If $l \parallel m$, $m\angle 4 = 12x + 5$, and $m\angle 5 = 8x + 17$, then what is $m\angle 2$?
 a. 139° b. 7.9° c. 3° d. 41°
- If $l \parallel m$, which two angles are supplementary?
 a. $\angle 1$ and $\angle 6$ c. $\angle 1$ and $\angle 8$
 b. $\angle 3$ and $\angle 5$ d. $\angle 4$ and $\angle 5$
- If $l \parallel m$, $m\angle 4 = 15x - 7$, and $m\angle 6 = 20x + 12$, then $m\angle 8 = \underline{\quad?}$
 a. 112° b. 5° c. 68° d. 3°

Determine whether each statement is true or false. Justify your response with the appropriate postulate or theorem.

In the diagram, $l \parallel m$ and $m \nparallel n$.

- $\angle 5$ is supplementary to $m\angle 3$
- $m\angle 9 = m\angle 6$ 11. $\angle 4 \cong \angle 10$
- $\angle 3 \cong \angle 8$ 12. $\angle 4 \cong \angle 6$
- $m\angle 8 + m\angle 10 = 180^\circ$
- $\angle 4$ is supplementary to $\angle 9$.