Name:__

Period:_____

SM2H 7.1-7.4 Quiz Review





Fill in the blanks with the words below. (list all that apply)

Given that 2 parallel lines are cut by a transversal, fill in the blanks with an appropriate word.

20. Corresponding angles are _____

21. The same-side interior angles are _____

Answer each question based on the diagram at the right. List <u>all</u> possible answers.

linear pair complementary angles vertical angles alternate exterior angles same-side interior angles alternate interior angles adjacent corresponding angles supplementary

- 22. How are $\angle 1$ and $\angle 2$ related?
- 23. How are $\angle 6$ and $\angle 7$ related?
- 24. How are $\angle 3$ and $\angle 8$ related?
- 25. How are $\angle 3$ and $\angle 6$ related?
- 26. How are $\angle 4$ and $\angle 7$ related?
- 27. How are $\angle 5$ and $\angle 7$ related?

x = _____

Find $m \angle b$ in each diagram. Explain your reasoning (state the postulate or theorem that justifies your answer).



x = _____



x = _____



Determine whether $\overline{BE} \parallel \overline{CD}$. Show some work to justify your answer.

41. $\begin{array}{c} 41. \\ & 10 \\ & 9 \\ & E \\ & C \\ & C \\ & D \end{array}$



43. Find the missing angle measures.



<i>m</i> ∠1 =	<i>m</i> ∠5 =
<i>m</i> ∠2 =	<i>m</i> ∠6 =
<i>m</i> ∠3 =	<i>m</i> ∠7 =
<i>m</i> ∠4 =	<i>m</i> ∠8 =

Find the value of x that makes $J \parallel K$. Explain your reasoning (state the postulate or theorem that justifies your answer).



47. Find *x* and *AC*.



48. Find *x*, *AM* and *MB*



49. Find x. Show your work!



50. If $\overline{MP} = \overline{PN}$ and $\overline{LO} = \overline{ON}$, find *LM*.

