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1. Identify $\underline{\text { all }}$ pairs of vertical angles.
2. Identify all pairs of alternate interior angles.
3. Identify all pairs of same side interior angles.
4. Identify all pairs of corresponding angles.
5. Identify all pairs of alternate exterior angles.
6. Identify all pairs of same side exterior angles.
7. Identify three pairs of supplementary angles.
8. Suppose the $m<b=36^{\circ}$. Applying what you know about angles, find the measure of each of the following angles.
a. $m<d=$
b. $m<e=$
c. $m<g=$
d. $m<f$
e. $m<c=$

Draw a line A parallel to line $B$. Line $C$ is a transversal crossing lines $A$ and $B$.
9. Label the following angles on your diagram drawn above.
a. <1 and $<2$ are alternate interior angles.
b. $<1$ and $<3$ are corresponding angles.
c. $<1$ and $<4$ are vertical angles.
d. $<2$ and $<5$ are same side interior angles.
e. $<6$ and $<7$ are vertical angles.
f. $<1$ and $<8$ are supplementary
g. $<6$ and $<8$ are corresponding angles.
10. For questions a-f, distinguish whether the pair of angles are alternate interior angles, corresponding angles, vertical angles, same side interior angles, same side interior angles, same side exterior angles, alternate exterior angles, or supplementary angles.
a. $<3$ and $<8$ are $\qquad$ angles.
b. $<5$ and $<8$ are $\qquad$ angles.
c. $<4$ and $<2$ are $\qquad$ angles.
d. $<2$ and $<3$ are $\qquad$ angles.
e. $<2$ and $<6$ are $\qquad$ angles.
f. $<6$ and $<1$ are $\qquad$ angles.
g. $<5$ and $<6$ are $\qquad$ angles.
h. $<4$ and $<2$ are $\qquad$ angles.
i. <4 and <3 are $\qquad$ angles.

