Name: _

Date:

3.1 Pairs of Lines & Angles CYU DAY ONE

🗹 Use when you get it right all by yourself

 ${m {\it S}}$ Use when you did it all by yourself, but made a silly mistake

 ${\it H}$ Use when you could do it alone with a little help from teacher or peer

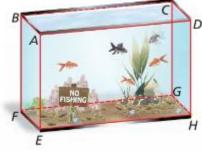
 $m{G}$ Use when you completed the problem in a group

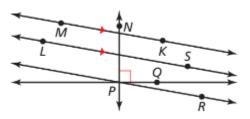
 \pmb{X} Use when a question was attempted but wrong (get help)

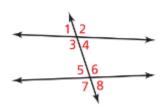
₿Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Identifying Parallel, Skew, Perpendicular Lines & Planes	1	5	6
Naming Parallel & Perpendicular Lines	2		
Identifying/Classifying Angles Pairs	3	4	
Vertical Angles & Linear Pairs	7		

- 1. Think of each segment in the diagram as part of a line. All the angles are right angles. Which line(s) or plane(s) contain point B and appear to fit in the description.
 - a. Line(s) parallel to \overleftarrow{CD}
 - b. Line(s) skew to \overleftarrow{CD}
 - c. Plane(s) parallel to plane CDH
- 2. Use the diagram provided.
 - a. Name a pair of parallel lines.
 - b. Name a pair of perpendicular lines.
- 3. Identify all pairs of angles of the given type.
 - a. Corresponding angles
 - b. AIA
 - c. AEA
 - d. SSIA







4. Classify the angle pair as corresponding, AIA, AEA, SSIA or SSEA.

- a. $\angle 5 \& \angle 1$ 1 2 9 10

 b. $\angle 11 \& \angle 13$ 3 4 11 12

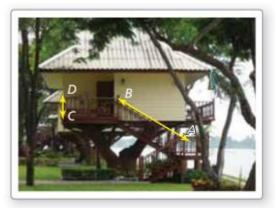
 c. $\angle 6 \& \angle 13$ 5 6 13 14

 d. $\angle 2 \& \angle 11$ 7 8 15 16
- 5. Describe and correct the error in the conditional statement about lines.

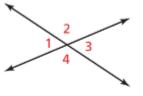


If two lines do not intersect, then they are parallel.

6. Use the photo to decide whether the statement is TRUE or FALSE. Explain your reasoning.



- a. The plane containing the floor of the tree house is parallel to the ground.
- b. The lines containing the railings of the staircase, such as \overrightarrow{AB} , are skew to all lines in the plane containing the ground.
- c. All the lines containing the balusters, such as \overleftarrow{CD} , are perpendicular to the plane containing the floor of the tree house.
- 7. Use the diagram to find the measures of the angles.
 - a. $m \ge 1 = 76^{\circ}$
 - b. m∠ 2 = 159°



CYU Reflection: How far can you go: basic, intermediate, or advanced? Rate your mastery level! How confident are you with the skills this CYU covered? Circle the score you would give yourself. 1 2 3 4 5 6 7 8 Basic Intermediate Advanced Solved ALL!