CYU 2.3 Diagrams & Postulates

☑ Use when you get it right all by yourself

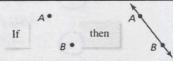
S Use when you did it all by yourself, but made a silly mistake HUse when you could do it alone with a little help from teacher or peer **G** Use when you completed the problem in a group X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Two Point Postulate	T GAL NO	8	7
Line Point Postulate	2a		
Line Intersection Postulate	2b		
Three Point Postulate	2c	8	
Plane Line Postulate	2d		
Plane Intersection Postulate	9	9	9
Creating Diagrams		3	
Assumptions from Diagrams	4, 5a, 6	4, 5b, 6	4, 6

1. State the postulate illustrated by the diagram.

point Postulate

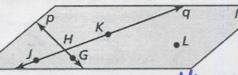


- 2. Use the diagram to write an example of the postulate.
 - a. Line-Point Postulate

Sample: Line gentains J & K

b. Line Intersection Postulate

c. Three Point Postulate



Sample: Mrough points K,H, &L, There is exactly one plane, plane M.

Plane Line Postulate

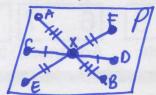
Sample: Points H & & lie in plane M, solare p lies in plane M.

a diagram of the description:

d. Plane Line Postulate

3. Sketch a diagram of the description:

 \overline{AB} , \overline{CD} , & \overline{EF} are all in plane P, and point X is the midpoint of all three segments.



h Deinte V. I. M. and N. aus conleague 14 C	W.
b. Points K, L, M, and N are coplanar. \\Csic S c. Points Q, J, & M are collinear.\\Csic O	M
d. \overrightarrow{MN} and \overrightarrow{RP} intersect. $\nearrow 0$	R
	N K
e. JK lies in plane X. Y€S f. ∠PLK is a right angle. no	1
g. ∠NKL & ∠JKM are vertical angles. \e\s	
h. $\angle NKJ \& \angle JKM$ are supplementary angles. \bigcirc	
5. Describe & Correct the error in the statement made about the	diagram
a. M is the midpoint of $\overline{AC} \otimes \overline{BD}$.	A
AM ~ RM & DM = OM- up omof Mis Y	ne
AM = BM & DM = OM; no proof Mis Y midpoint. Simply the point of	Morcethy
	D• II M B
b. \overline{AC} intersects \overline{BD} at a 90° angle, so $\overline{AC} \perp \overline{BD}$.	#
No £ , so no proof of I seg can only assume vertical x's t	ments.
Can rially assume vertical 215 4	mear pair.
6. Select all the statements about the diagram that you <i>cannot</i> co	nclude.
a. A, B, & C are coplanar.	
b. Plane T intersects plane S in \overrightarrow{BC} .	\tau_{1}
$(c.)$ \overrightarrow{AB} intersects \overrightarrow{CD} .	A -
d. H, F, & D are coplanar.	8
e. Plane T^{\perp} plane S .	HB
(f.) Point B bisects \overline{HC} .	3 F F
g. ∠ ABH & ∠HBF are a linear pair.	***
(h.) $\overrightarrow{AF} \perp \overrightarrow{CD}$.	
7. One way to graph a linear equation is to plot two points whose	coordinates satisfy the equation and
then connect them with a line. Which postulate guarantees this	
	AND THE PERSON NAMED IN COLUMN
equation? Two-point postulate	
	An ere
8. Choose the correct symbol ($<$, \leq , $=$, \geq , $>$) to go between these tw	
determine a line number of points to determine a plan 2 / 3	le. (4)
	two planes intersect in a line leaveur
9. Your friend claims that by the Plane Intersection Postulate, any	
friend's interpretation of the Plane Intersection Postulate corre	Mensect-men will
no The postulate says that it two planes intersect in a line. But planes can be par	rallel and never intersec
CYU Reflection: How far can you go: basic, inter	
Rate your mastery level! How confident are you with the skills this CYU covered? Circle	
The Comment are you with the skins this ero covered? Circle	- The score you would give yourself.
1 2 3 4 5 6	/ 8
Basic Intermediate Advance	ed Solved ALL!

4. Use the diagram to determine whether you can assume the statement.

a. Planes W & X intersect at \overrightarrow{KL} .