

1.1 More Practice

Name: ANSWER KEY

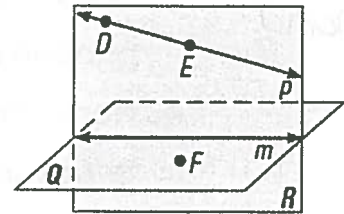
1. List the three undefined terms: Points, Lines, Planes

2. Name one line. \overleftrightarrow{DE} , line m , line p

3. Name the segment that contains point E. \overline{DE}

4. Name the plane that contains point E. plane R

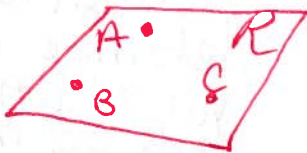
5. Name a point not on Plane Q. pt D or pt E



6. Draw a new diagram with three collinear points.



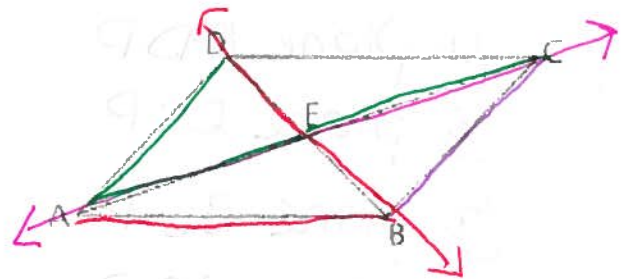
7. Draw a new diagram with three coplanar points.



8. Find the points that describe the following: *use colors for this section.*

- a. $\overline{AB} \cap \overline{BC} = \underline{\bullet B}$
- b. $\overline{EC} \cup \overline{EA} = \underline{\overleftrightarrow{AC}}$
- c. $\overline{AC} \cap \overline{DB} = \underline{\bullet E}$
- d. $\angle DAE \cap \overline{CE} = \underline{\overline{CE}}$
- e. $\overline{AC} \cup \overline{EC} = \underline{\overline{AC}}$
- f. $\overline{BA} \cup \overline{BC} = \underline{\angle ABC}$

$\cap \Rightarrow$ intersection
 $\cup \Rightarrow$ union



Plane ABC
Plane DBE
Plane DCE

9. Find the points that describe the following:

a. Name three collinear points. $\cdot A, D, B$

b. Name three non-coplanar points. You can always name a plane through 3 pts.

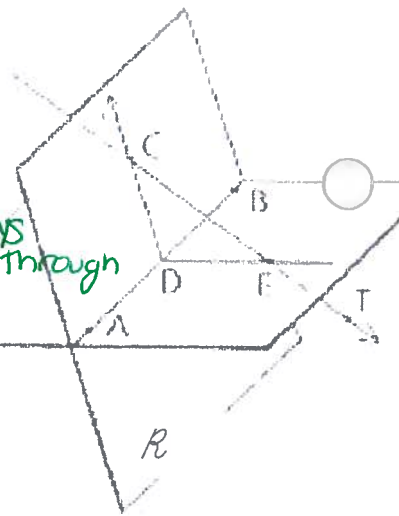
c. Can A, B, and E name a plane? yes planes

d. Name the plane made by line AB and line ED. plane S

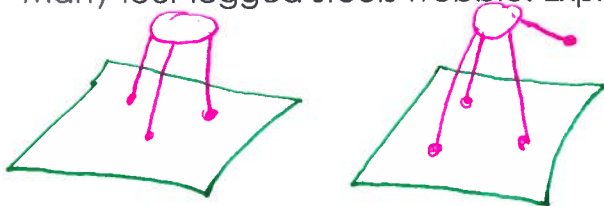
e. Name the intersection of plane S and plane R. \overline{AB}

f. Name the intersection of line TC and plane S. point E

NOT possible (TRICK Question)



10. A three-legged stool will not rock, even if the legs are different lengths. Many four-legged stools wobble. Explain why.



You need at least 3 pts to determine a plane. When you add the fourth leg, that leg may be in a different plane. While the 3 other legs are in the same plane.

11. The figure at the right is a square pyramid. How many planes are determined by its vertices? Please name them. (HINT: There are more than 5.)

① plane ADP

② plane DCP

③ plane BCP

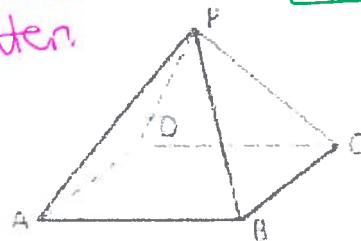
④ plane ABP

⑤ plane ABC / ADC / CDB
*Any comb of these three

⑥ plane DPB

⑦ plane APC

*order of letters do not matter.



7 total planes