

Independent Practice: POINTS, LINES & PLANES

NAME: _____

DATE: _____

PERIOD: _____

For #1 – 6, name one of each of the following from Figure 1: (Although many other segments, lines, planes, etc., can be drawn through any two points use only what is visible in Figure 1)
(Matching – be careful, not all answer choices will be used.)

1. point: _____

2. line: _____

3. line segment: _____

4. ray: _____

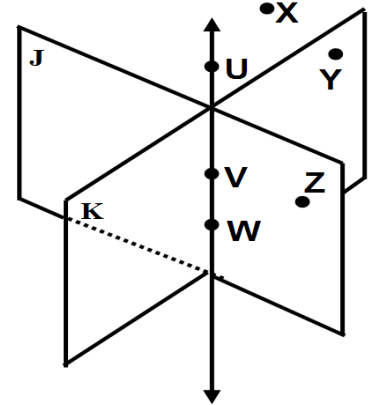
5. a pair of opposite rays:

6. plane _____

MATCHING

- A. \overleftrightarrow{JZ}
- B. *plane* KVW
- C. \overleftrightarrow{UK}
- D. *plane* UVW
- E. $\overleftrightarrow{UV}, \overleftrightarrow{WV}$
- F. \overleftrightarrow{VU}
- G. \overleftrightarrow{WV}
- H. $\overleftrightarrow{VU}, \overleftrightarrow{VW}$
- I. \overleftrightarrow{KV}
- J. K
- K. $\overleftrightarrow{UV}, \overleftrightarrow{VW}$
- L. V
- M. $\overleftrightarrow{VW}, \overleftrightarrow{VZ}$
- N. \overleftrightarrow{WU}

Figure 1



For #7 – 10, name one of each of the following from Figure 2:

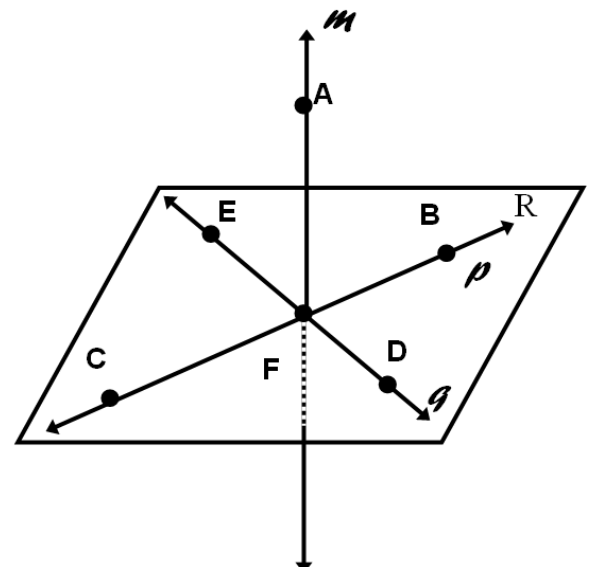
7. two points collinear with point D: _____

8. two points coplanar with point B: _____

9. a plane containing points B, C, and E:

10. a plane containing lines p and q:

Figure 2



For #11- 15, state whether each best models a **point**, **line**, **line segment**, **ray**, or **plane**.

11. a taut piece of thread: _____
12. a knot in a piece of thread: _____
13. a piece of cloth: _____
14. the light from a laser pointer: _____
15. taking a piece of gum and stretching it from BOTH ends: _____

For #16 – 20, refer to Figure 3 to answer each question. (The figure is a rectangular prism formed by six planes. Only a portion of each plane is shown.)

16. Name the six planes that form the rectangular prism:

Choose 6 from right: _____

17. Name two points that are coplanar with points **B**, **H**, and **K**: _____

18. Which two planes intersect in \overleftrightarrow{CD} ?

Choose 2 from right: _____

19. Name a plane and a line that intersect at **A**:

20. Which point(s) do planes **ABC**, **CDE**, and **AGE** have in common?

Use the following answers for questions #16 & #18, answers may overlap.

- A. BJC
- B. CDE
- C. AKB
- D. ABH
- E. AGH
- F. AGE
- G. BHE
- H. BHD
- I. AKG
- J. AED
- K. EDH

Figure 3

