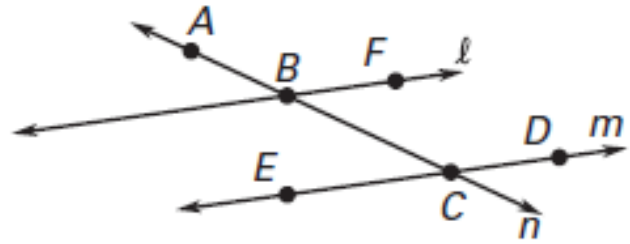


Name: _____

WORKSHEET: Points, Lines and Planes

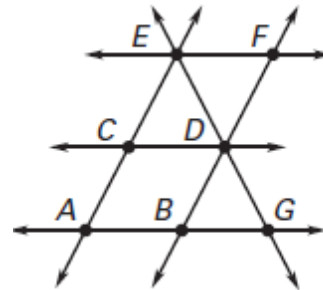
For 1 – 5, use the diagram to determine if each statement is TRUE or FALSE. JUSTIFY your answer.

1. Point A lies on line m.
2. B, C and D are collinear.
3. A, B and F are coplanar.
4. A, B, C, and D are collinear.
5. \overrightarrow{CD} and \overrightarrow{CE} are coplanar.



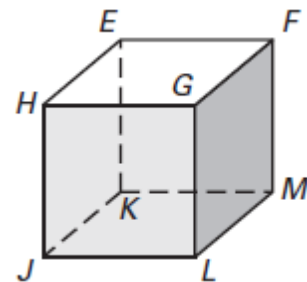
For 6 – 9, name a point that is COLLINEAR with the given points.

6. E and D
7. C and A
8. D and B
9. B and G

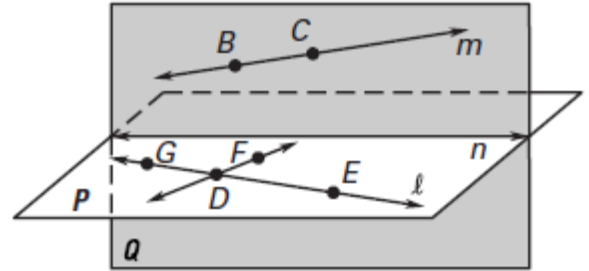


For 10 – 13, name a point that is COPLANAR with the given points.

10. J, K and L
11. J, K, and E
12. E, K, and M
13. J, L, and G



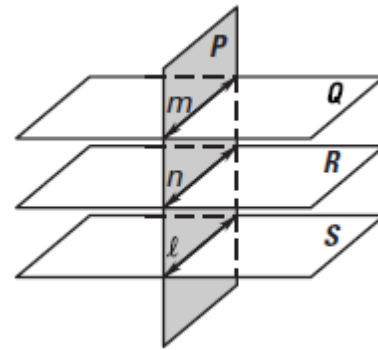
For 14 – 17, use the diagram.



14. Name THREE (3) points that are COLLINEAR.
15. Name TWO (2) lines that are COPLANAR.
16. Name THREE (3) points that are NOT COLLINEAR.
17. Name FOUR (4) points that are NOT COPLANAR.

For 18 – 24, decide whether the statement is TRUE or FALSE. JUSTIFY your answer.

18. Planes Q and R intersect at line n.
19. Planes P and Q intersect at line m.
20. Planes R and S do not appear to intersect.
21. Planes S and P do not appear to intersect.
22. Lines n and ℓ appear to intersect.
23. Planes Q and S intersect at line m.
24. Lines ℓ and m do not appear to intersect.



For 25 – 28, sketch each figure described.

25. Two lines that lie in a plane and intersect at a point.
26. Two planes that intersect in a line.
27. Two planes that do not intersect.
28. A line that intersects a plane at a point.