8/27/19 - Warm Up Problem

1. Name the intersection of lines p and q.

F

2. Name three points that are collinear.

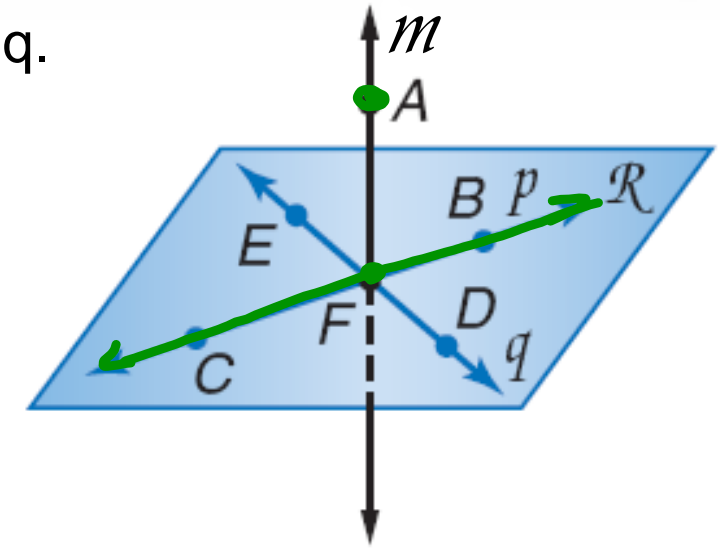
CFB

3. Name 4 points that are noncoplanar.

EBCH

4. ~~What is~~ another way to name line *p*?

CB

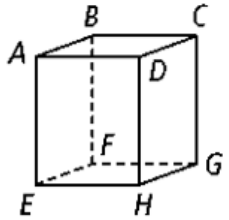


Concept 1 Worksheet (#14-24)

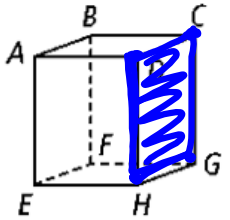
INTERSECTIONS OF LINES AND PLANES

Shade the plane that contains the given points.

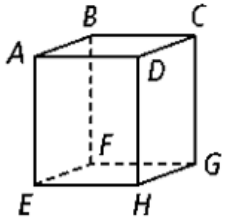
14. *A, B, C*



15. *C, D, H*



16. *E, F, D*



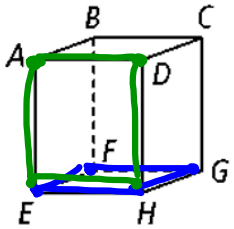
Name the intersection of each pair of planes

17. planes *DCG* and *EFG*

18. planes *EFG* and *ADH*

$\overleftrightarrow{EH}$

19. planes *BCG* and *ABF*



Use the figure at the right for # 19-23. Name the intersection of each pair of planes or lines.

Remember: Two lines intersect in exactly 1 point, but two planes intersect in exactly 1 line.

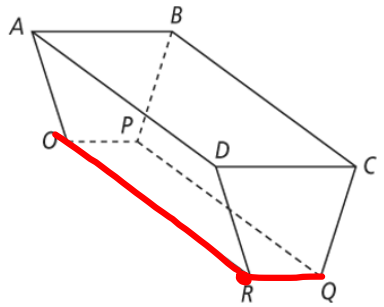
20. planes *AOR* and *QRO*

21. $\overleftrightarrow{RQ}$ and $\overleftrightarrow{RO}$ R

22. planes *ADR* and *DCQ*

23. planes *BCD* and *BCQ*

24. $\overleftrightarrow{OP}$ and $\overleftrightarrow{QP}$

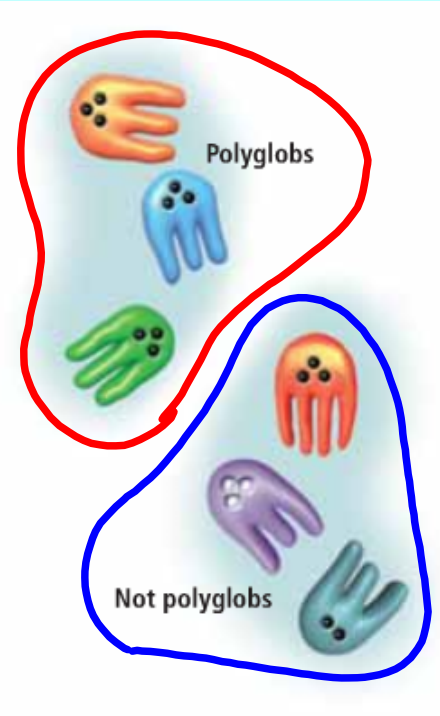


Concept 1 - Definitions of Geometric Figures

Goal: To write precise definitions for geometric figures using a set of examples and counterexamples

Tips for Writing a Good Definition

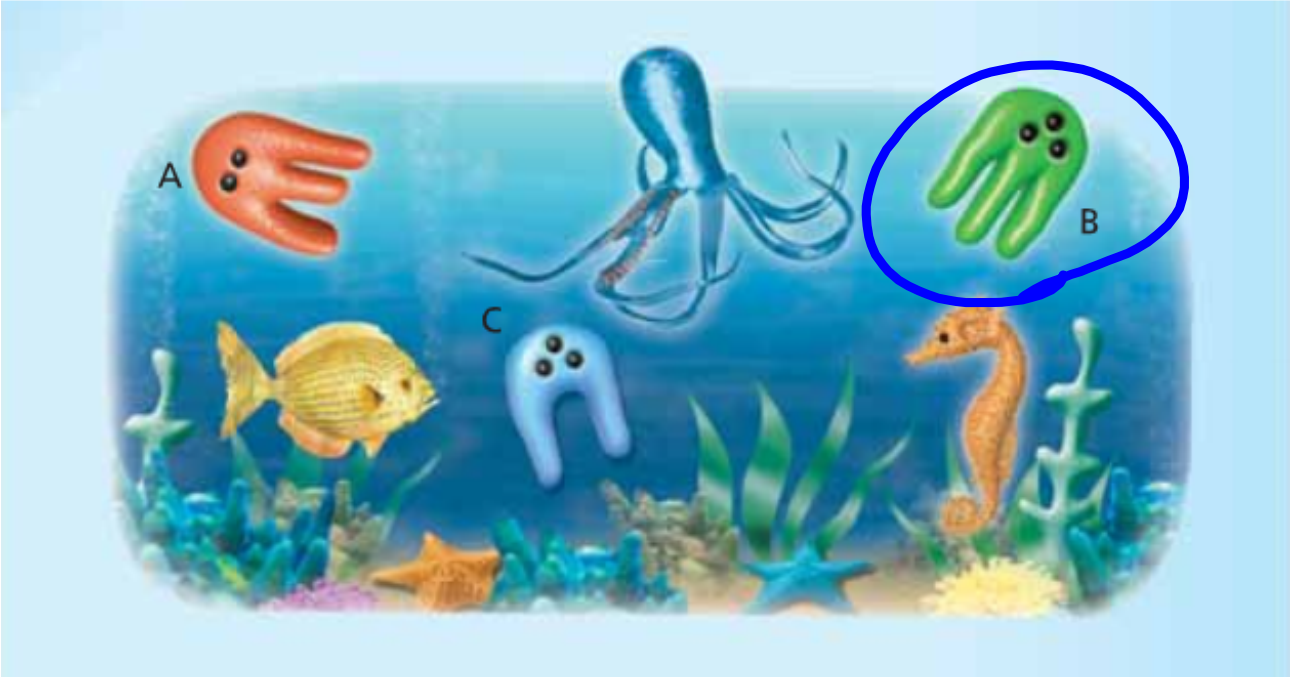
- be precise
- use commonly understood or already defined terms
- your definition should not describe any counterexamples



Define a polyglob.

a creature with 3 legs and 3 black eyes

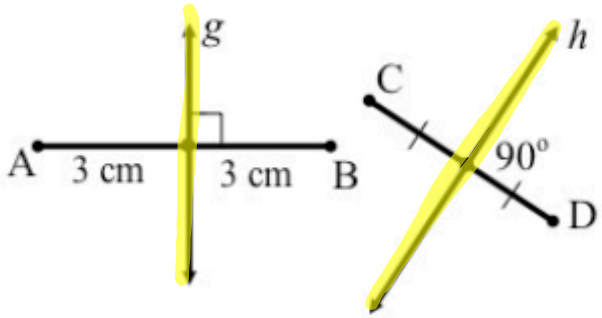
Which ones are polyglobs?



Was your definition precise enough?

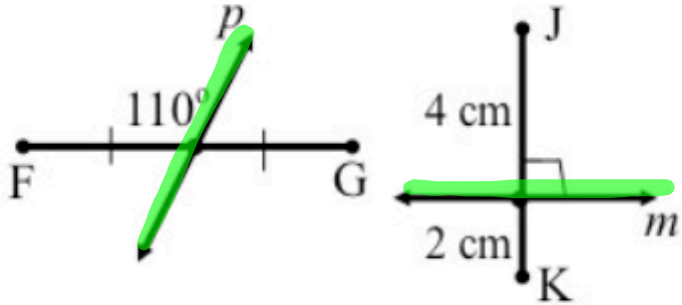
PERPENDICULAR BISECTOR

EXAMPLES:



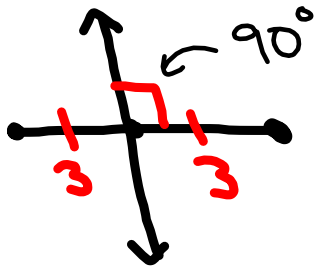
Line g is the perpendicular bisector of AB.
Line h is the perpendicular bisector of CD.

COUNTEREXAMPLES:



Line p is not a perpendicular bisector.
Line m is not a perpendicular bisector.

Write in your notes...

PERPENDICULAR BISECTOR		a line that goes through the middle of a segment at a 90° angle

Put your name on the front of your note-taking guide.
Put it in the basket on the back table.

I will hand your notes back to you tomorrow.

No assignment today!