

Points, Lines, and Planes

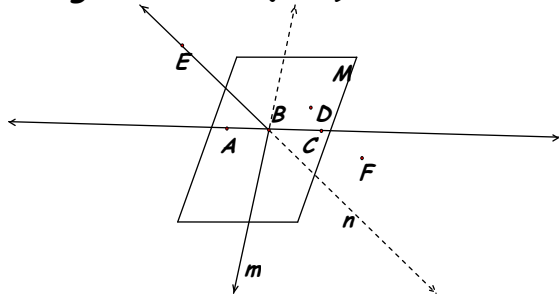
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1. What do we call the set of all points?

- A. Point
- B. Line
- C. Plane
- D. Space

8. Draw and label plane R such that it is cut by lines k and n at point B .

Use the figure below. (2-4)



9. Draw a picture to illustrate the following: K is between J and M , L is between K and M , and M is between K and N . If $JN = 14$, $KM = 4$, and $JK = KL = LM$. Then find the following measures:

2. Name 3 coplanar points.

3. Name a point not contained on plane M .

4. B is between _____ and _____.

5. The intersection of two lines is a _____.

6. The intersection of two planes is a _____.

7. A strand of hair is an example of which of the following:

- A. Point
- B. Line
- C. Plane
- D. Space

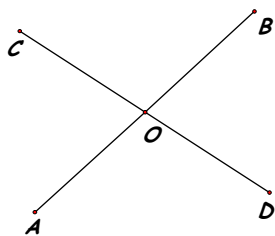
- A. JK
- B. KN
- C. MN
- D. MJ
- E. LJ
- F. NL

10. Anna lives directly down the street from school. She drops her sister off at the bus stop that is halfway to school. She then meets her friend halfway between the bus stop and school. If Anna lives 1.5 miles from school, how far from school is she when she meets her friend?

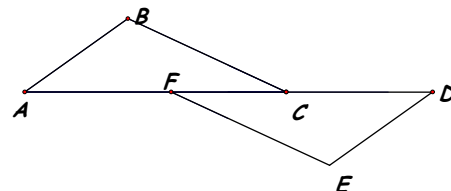
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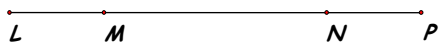
11. **Given:** \overline{AB} bisects \overline{CD} ; $CO = AO$; \overline{CD} bisects \overline{AB}
Prove: $OB = OD$



14. **Given:** $AF = CD$
Prove: $AC = FD$



12. **Given:** $LN = MP$
Prove: $LM = NP$



15. Draw and label a diagram such that line t contains Q and R , but not P and S .

13. **Given:** $AX = BY$; $XB = YC$
Prove: $AB = BC$

