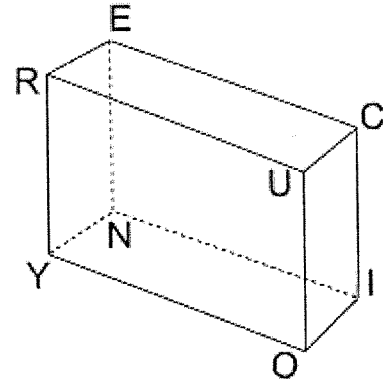


For #1-6, use the diagram to name each of the following:

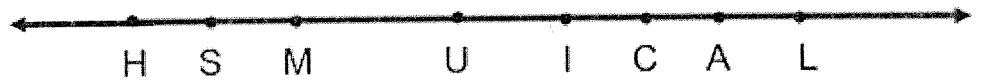
1. Two planes that intersect at \overline{OI} YOIN, OICU
2. Three noncollinear points Y, R, U (sample)
3. Two planes that do not intersect YOUR and NICE
4. Three noncoplanar points does not exist!
5. Three intersecting planes YOIN, OICU, YOUR
6. The intersection of OICU and NICE \overleftrightarrow{IC}
* must have line notation *



Write true or false on the line.

7. The four undefined terms in Geometry are point, line, plane, and space. false
8. The bisector of a segment is always a segment. false.
9. Two objects that have the same size and shape are called congruent. true
10. Two planes intersect at a point. line! false
11. A line contained in a plane intersects that plane in exactly one point. all points intersect that plane! false
12. \overline{LV} and \overline{VL} are the same ray. false
13. \overline{DF} and \overline{FD} are the same segment. true
14. The length of a segment can be negative. false

Refer to the number line.



15. U is the midpoint of \overline{HL} . If $HU = 15x - 9$ and $HL = 42$, find UL. UL = 21

16. $SU = 6x - 9$, $MC = 4x - 1$, $MU = 2$, and $SC = 33$. Find SU and MC. SU = 18 MC = 17

$$SU + MC - MU = 33$$

overlap!

$$6x - 9 + 4x - 1 - 2 = 33$$

$$10x - 12 = 33$$

$$x = 4.5$$

$$SU = 6(4.5) - 9 = 18$$

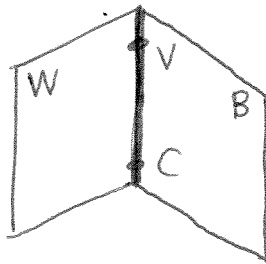
$$MC = 4(4.5) - 1 = 17$$

★ check all labels ★

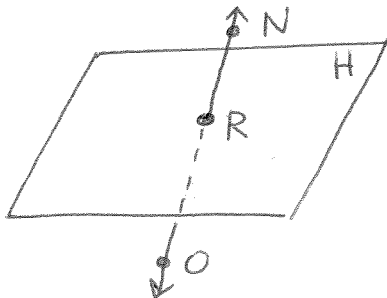
Sketch each of the following:

17. Plane W intersecting plane B at \overline{VC}

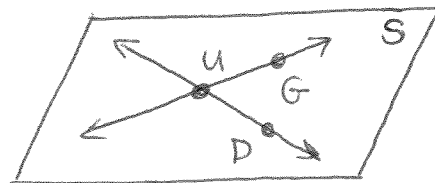
2 vertical
or
1 vertical &
1 horizontal



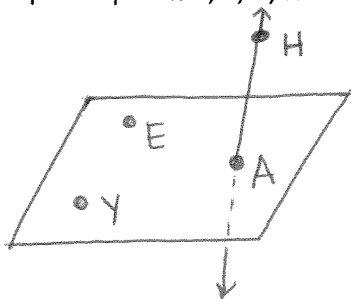
18. \overline{NO} intersecting horizontal plane H at R



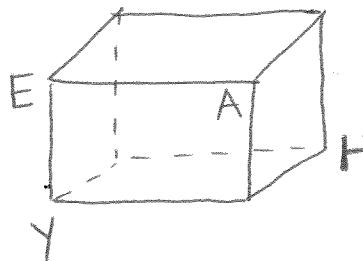
19. Two lines, \overline{GU} and \overline{DU} contained in horizontal plane S



20. Noncoplanar points Y, E, A, H



or



or

