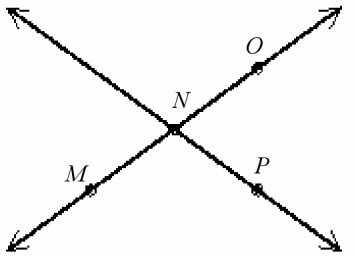
Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Geometry Unit 1 Segment 1 Practice Questions

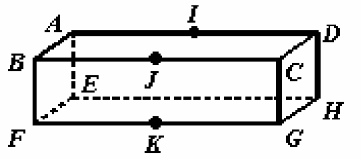
Multiple Choice
Identify the choice that best completes the statement or answers the question.

____ 1. Are *O*, *N*, and *P* collinear? If so, name the line on which they lie.



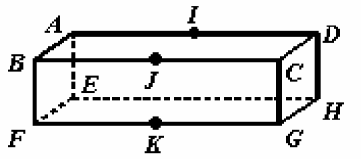
a. No, the three points are not collinear.
b. Yes, they lie on the line *MP*.
c. Yes, they lie on the line *NP*.
d. Yes, they lie on the line *MO*.

____ 2. Name the plane represented by the front of the box.



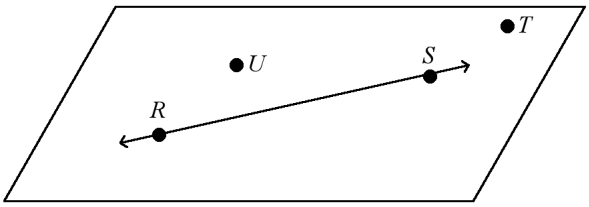
a. *FBC* b. *BAD* c. *FEC* d. *FKG*

____ 3. Are points *B*, *J*, and *C* collinear or noncollinear?



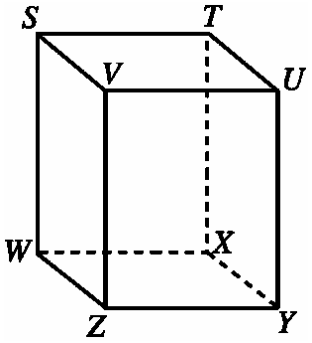
a. collinear b. noncollinear c. impossible to tell

____ 4. Name the line and plane shown in the diagram.



a. $\overleftrightarrow{RS}$ and plane *RSU*
b. line *R* and plane *RSU*
c. $\overleftrightarrow{RS}$ and plane *UR*
d. $\overleftrightarrow{SR}$ and plane *UT*

____ 5. What is the intersection of plane *TUYX* and plane *VUYZ*?

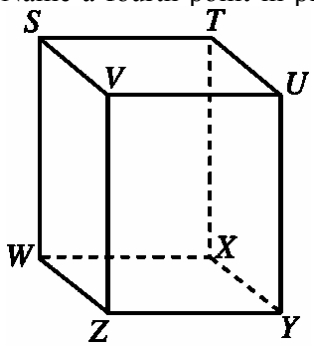


a. $\overleftrightarrow{UY}$
b. $\overleftrightarrow{SW}$
c. $\overleftrightarrow{TX}$
d. $\overleftrightarrow{VZ}$

____ 6. Name the intersection of plane *BPQ* and plane *CPQ*.

a. $\overleftrightarrow{PQ}$
b. $\overleftrightarrow{BP}$
c. $\overleftrightarrow{CQ}$
d. The planes need not intersect.

____ 7. Name a fourth point in plane *TUW*.



a. *Y*
b. *Z*
c. *W*
d. *X*

____ 8. ____ two points are collinear.

a. Any
b. Sometimes
c. No

____ 9. Plane *ABC* and plane *BCE* ____ be the same plane.

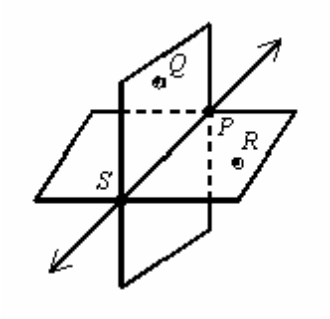
a. must
b. may
c. cannot

____ 10. $\overline{DE}$ and $\overline{CF}$ ____ be coplanar.

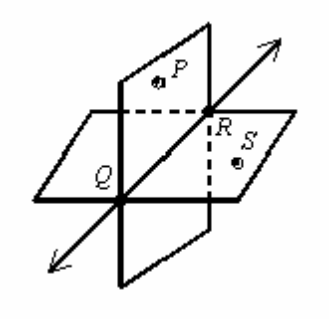
a. must b. may c. cannot

____ 11. Which diagram shows plane PQR and plane QRS intersecting only in $\overleftrightarrow{QR}$?

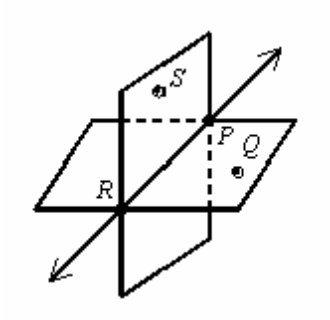
a.



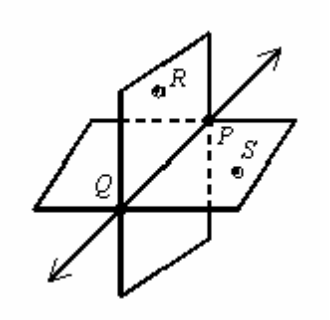
c.



b.



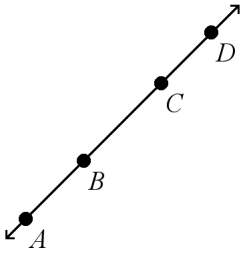
d.



____ 12. Name the ray in the figure.

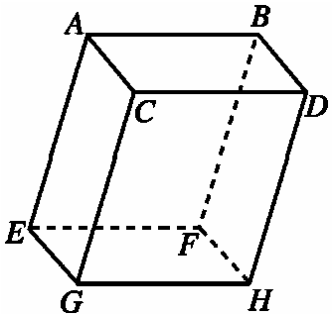
a. $\overrightarrow{BA}$ b. $\overleftrightarrow{AB}$ c. $\overline{BA}$ d. $\overrightarrow{AB}$

____ 13. Name the ray that is opposite $\overrightarrow{BA}$.



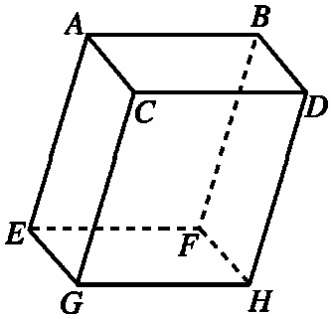
a. $\overrightarrow{BD}$ b. $\overrightarrow{BA}$ c. $\overrightarrow{CA}$ d. $\overrightarrow{DA}$

____ 14. Name the four labeled segments that are skew to $\overline{CD}$.



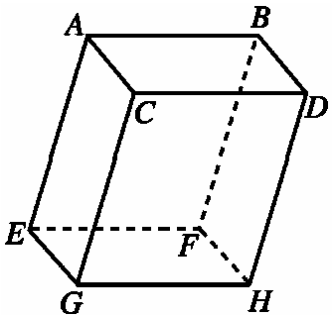
a. $\overline{FH}$, $\overline{EG}$, $\overline{AE}$, $\overline{BF}$
b. $\overline{AE}$, $\overline{EF}$, $\overline{BF}$, $\overline{EG}$
c. $\overline{BF}$, $\overline{GH}$, $\overline{EG}$, $\overline{AE}$
d. $\overline{FH}$, $\overline{AE}$, $\overline{CG}$, $\overline{BF}$

____ 15. Name the three labeled segments that are parallel to $\overline{EF}$.



a. $\overline{AB}$, $\overline{CD}$, $\overline{GH}$
b. $\overline{GH}$, $\overline{EG}$, $\overline{CD}$
c. $\overline{BF}$, $\overline{AB}$, $\overline{CD}$,
d. $\overline{AC}$, $\overline{CD}$, $\overline{GH}$

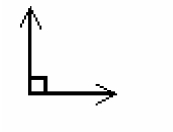
____ 16. Which plane is parallel to plane *EFHG*?



a. plane *ABDC*
b. plane *ACGE*
c. plane *CDHG*
d. plane *BDHF*

____ 17. Which angle is a right angle?

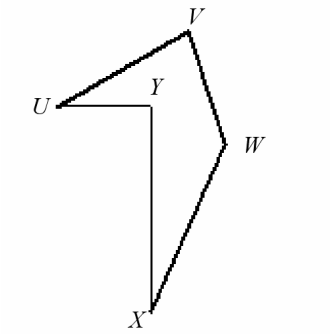
a. 

c. 

b. 

d. 

____ 18. Judging by appearance, name an acute angle, an obtuse angle, and a right angle.



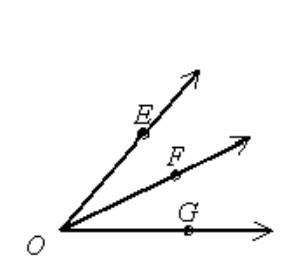
a. $\angle W, \angle X, \angle V$

c. $\angle U, \angle W, \angle Y$

b. $\angle V, \angle Y, \angle W$

d. $\angle U, \angle V, \angle Y$

____ 19. If $m\angle EOF = 26$ and $m\angle FOG = 38$, then what is the measure of $\angle EOG$? The diagram is not to scale.



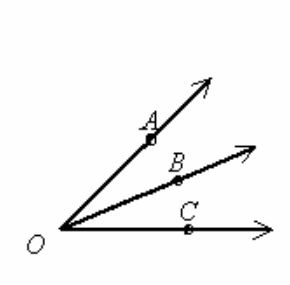
a. 64

b. 12

c. 52

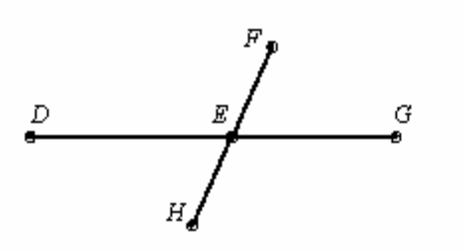
d. 76

____ 20. If $m\angle BOC = 27$ and $m\angle AOC = 47$, then what is the measure of $\angle AOB$? The diagram is not to scale.



a. 74 b. 40 c. 20 d. 54

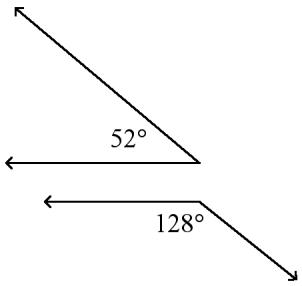
____ 21. If $m\angle DEF = 122$, then what are $m\angle FEG$ and $m\angle HEG$? The diagram is not to scale.



a. $m\angle FEG = 122$, $m\angle HEG = 58$
b. $m\angle FEG = 58$, $m\angle HEG = 132$
c. $m\angle FEG = 68$, $m\angle HEG = 122$
d. $m\angle FEG = 58$, $m\angle HEG = 122$

____ 22. Supplementary angles are two angles whose measures have sum ____.
Complementary angles are two angles whose measures have sum ____.
a. 90; 180 b. 90; 45 c. 180; 360 d. 180; 90

____ 23. How are the two angles related?



Drawing not to scale

a. vertical
b. supplementary
c. complementary
d. adjacent