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## 1.1-THE BASICS OF GEOMETRY

## Past due on:

$\qquad$ Period: $\qquad$

a. Provide three different names for the line.
b. Identify and name the ray with endpoint $D$ in all possible ways.
c. Identify and name a segment that is not part of the line.
3.

a. $D \cap E$
b. $\overleftrightarrow{A T} \cap \overleftrightarrow{B W}$
c. Name three noncollinear points.
d. Name four coplanar points.
5.

a. $\overleftrightarrow{A B} \cap \overleftrightarrow{C E}$
b. Name all points collinear with $D$.
c. Name all segments that lie on $\overleftrightarrow{A B}$.
d. Name all rays with endpoint $B$.
e. $E$ is between what two points?
2.

a. Identify the vertex of the angle.
b. Identify the sides of the angle.
c. Name the angle in all possible ways.
4.

a. Name $\angle O P R$ in all other possible ways.
b. What is the vertex of $\angle T O S$ ?
c. How many angles have vertex $R$ ?
d. Which angle in the figure is $\angle O$ ?
6.

b. Identify two coplanar lines.
c. Identify the intersection of planes $F G H$ and $K D E$.
d. Identify any points that are not coplanar with $A, B$, and $L$.
e. Is $K$ coplanar with $H$ ?
7.

a. $\overline{A B} \cap \overline{B C}$
b. $\overrightarrow{E C} \cup \overrightarrow{E A}$
c. $\overleftrightarrow{A C} \cap \overleftrightarrow{D B}$
e. $\overrightarrow{A C} \cap \overrightarrow{E C}$
f. $\overrightarrow{B A} \cup \overrightarrow{B C}$
g. $\overline{E C} \cup \overline{C B} \cup \overline{B E}$
d. $\overline{D C} \cap \overline{A B}$

a. Plane $Y Z T \cap$ plane $X Y T$
b. Are $Z, V$, and $W$ collinear?
c. Are $Z, V$, and $W$ coplanar?
d. Name three planes that intersect at point $W$.
e. Name three lines that intersect at point $Y$.
f. Do the planes $Y X T$, $W X T$, and $W V T$ intersect in one line?
9.

a. Name all points collinear with $E$ and $F$.
b. $B$ lies on a ray whose endpoint is $E$. Name this ray in all possible ways.
c. Names all points between $F$ and $D$.
d. Is $\angle A \cong \angle D$ ?
f. $\overline{A G} \cap \overline{G F}$
e. $\overleftrightarrow{A C} \cap \overleftrightarrow{F E}$
g. $\overline{A G} \cup \overline{G F}$

a. $\overrightarrow{E C} \cup \overrightarrow{F A}$
d. $\overleftrightarrow{A C} \cap \overleftrightarrow{D R}$
b. $\overrightarrow{E C} \cap \overrightarrow{F A}$
e. $\angle A F D \cap \overline{C E}$
c. $\overrightarrow{B A} \cup \overrightarrow{B E}$
f. Name in all possible ways the line containing $A, R$, and $D$.
g. Name the sides of $\angle A B C$.
h. What side do $\angle 2$ and $\angle 4$ have in common?
i. Name the horizontal ray with endpoint $C$.
j. Are angles $F C D$ and $D C E$ different angles?
11.

a. $m \cap n$
b. $A, B$, and $V$ determine plane $\qquad$
c. Name the foot of $\overleftrightarrow{R S}$ in plane $m$
d. $\overleftrightarrow{A B} \& \overleftrightarrow{R S}$ determine plane $\qquad$
e. $\overleftrightarrow{A B}$ and point $\qquad$ determine plane $n$
f. Does $W$ lie in plane $n$ ?
g. $\overleftrightarrow{A B}$ and line $\qquad$ determine plane $m$
h. $A, B, V$, and $\qquad$ are coplanar points.
i. $A, B, V$, and $\qquad$ are noncoplanar points.
j. If $R$ and $S$ lie in plane $n$, what can be said about $\overleftrightarrow{R S}$ ?
12. $A, K, O$, and $Y$ are collinear points. $K$ is between $O$ and $A$, the length of $\overline{A O}$ added to the length of $\overline{A Y}$ is equal to the length of $\overline{O Y} .(O A+A Y=O Y)$, and $A$ is to the right of $O$. Draw a diagram that correctly represents this information.
13. Draw a diagram in which $F$ is between $A$ and $E, F$ is also between $R$ and $S$, and $A, E, R$, and $S$ are noncollinear.
14. If $\mathrm{AB}=16, \mathrm{BC}=8$, and $\mathrm{AC}=24$, which point is between the other two?
15. $Q$ is between $P$ and $R$ on a number line. $P=-8, \& R=4$. What do we know about the length $\mathrm{PQ}+\mathrm{QR}$ ?
16. Each of the directions below builds on another.
a. Draw two points: $J$ and $K$
b. Use a straightedge and draw $\overleftrightarrow{J K}$.
c. Add points $L$ and $M$ so that $L$ is not on $\overleftrightarrow{J K}$ and $M$ is between $J$ and $K$.
d. Draw $\overrightarrow{J L}$.
e. Draw $\overrightarrow{K L}$.
f. Draw $\overline{L M}$.

