## Do Now

1) Name in all possible ways the line containing $A, R, D$
2) Name all the sides of $\angle A B C$.
3) What side do $\angle 2$ and $\angle 4$ have in common?
4) Name the horizontal ray with endpoint C.

5) Estimate the sizes of $\angle B A D, \angle 2$ and $\angle A B C$.
6) Are angles FCD and DCE different angles? Why or why not? How do you know?
7) Can you call $\angle 2$ " $\angle \mathrm{D}$ " as well? Why or why not? How do you know?

Practice Problems for Quiz (1.1-1.5) Name $\qquad$

1) $\overrightarrow{E C} \cup \overrightarrow{F A}=$ $\qquad$
2) $\overrightarrow{E C} \cap \overrightarrow{F A}=$ $\qquad$
3) $\overrightarrow{B A} \cup \overrightarrow{B E}=$ $\qquad$
4) $\overleftrightarrow{A C} \cap \overleftrightarrow{D R}=$ $\qquad$

5) $\angle \mathrm{AFD} \cap \overline{\mathrm{CE}}=$ $\qquad$
6) Tell whether each of the following angles appears to be acute, right, obtuse, or straight. Which angle's classifications can be assumed form the diagram?
a) $\angle \mathrm{H}$ - $\qquad$
b) $\angle \mathrm{G}-$ $\qquad$
c) $\angle$ GFE - $\qquad$
d) $\angle D E F$ - $\qquad$
e) $\angle \mathrm{HDF}$ - $\qquad$

7) a) According to the diagrams, which two segments are congruent?
a) According to the diagrams, which twoangles are congruent?

8) The perimeter of PRST is 10 more that 5 times the length of RS. If $P R=26$, find $R S$.

9) a) If $\angle \mathrm{EFG}$ is obtuse and $\angle \mathrm{HJK}$ is right, is $\angle 1 \cong \angle 2$ ? How do you know?
b) If $\angle \mathrm{EFG} \cong \angle \mathrm{HJK}$, is $\angle 1 \cong \angle 2$ ? How do you know?


10) If $\angle A \cong \angle B$, find $m \angle A$.

11) The measures of $\angle 1, \angle 2$, and $\angle 3$ are in the ratio $1: 3: 2$. Find the measure of each angle.

12) Is it possible for both $\angle \mathrm{NOR}$ and $\angle \mathrm{POS}$ to be right angles? Why or why not. Tell me how you know?

13) Given: $\angle D E G=(x+3 y)^{\circ}$
$\angle G E F=(2 x+y)^{\circ}$
$\angle D E F$ is a right angle.
a) Solve for $y$ in terms of $x$.

b) If $\angle D E G \cong \angle G E F$, find the values of $x$ and $y$.
14) Given: $W Y=25$;

The ratio of WX to XY is $3: 2$.
Find WX.

15. The measure of $\angle A$ is 6 greater than twice the measure of $\angle B$. If the angles's sum is $42^{\circ}$, find the measure of $\angle A$.
16. What can we assume from this diagram?

17) What are the restrictions on the third side length of a triangle with the following side lengths?
a) 29,8 , x
b) $100,52, \mathrm{y}$
18) Can you make a triangle with sides of length...?
a) $10,6,12$
b) $47,50,1$
c) $100,60,40$
19. Given: $\overrightarrow{\mathrm{OR}}$ and $\overrightarrow{\mathrm{OS}}$ trisect $\angle \mathrm{TOP}$. $\angle \mathrm{TOP}=57.6^{\circ}$
Find: $m \angle P O R$

20) a) Find the coordinate of $C$ (the midpoint of BD).

b) If $A D=15$, find the coordinate of $A$.
21) $\angle \mathrm{Q}$ is obtuse.
a) What are the limitations on $m \angle Q$ ? (Write two inequalities)
b) What are the restrictions on $x$ ?


