*10 questions
*Calculator and notes allowed
*Show all work/steps- use separate paper
*Recommend time frame 10min -15min

Provide complete explanations in your responses.

<u>Points, Lines and Planes</u>

1. True or False: the terms points, lines and planes be defined

   a. True

   b. False

2. Write the geometric notation of a line that passes through the points E and F.

   a. $\angle EF$

   b. EF

   c. $\overrightarrow{EF}$

   d. $\overleftrightarrow{EF}$

3. Point A, B and C are collinear, what does this mean?

a. They are not on the same line

b. They are on the same line

c. They are the points that form a triangle

d. They are congruent to each other

Line Segments and Rays

4. Write the geometric notation of a line segment with end points M and N.

a. $\overline{MN}$

b. MN

c. $\overrightarrow{MN}$

d. $\overleftrightarrow{MN}$

5. If two line segments are congruent they_____.

    a. Have a similar shape

    b. They have the same angles

    c. They have the same shape and size

    d. They are on the same plane

6. The points -12 and 8 are on a number line- what is the distance between the points? And

    what is the midpoint between the two numbers?

    a. $Distance = -4 \quad Midpoint = 6$

    b. $Distance = 20 \quad Midpoint = -2$

    c. $Distance = 10 \quad Midpoint = -4$

    d. $Distance = 16 \quad Midpoint = 2$

Angles

7. Name the angle using proper notation
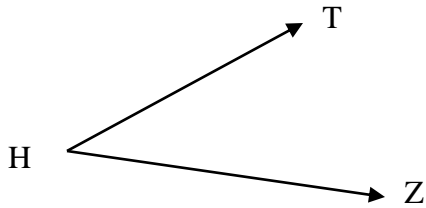
    a. $\angle TZH$

    b. $\angle HZT$

    c. $\angle THZ$

    d. $\angle ZTH$

8. Classify the angles as acute, obtuse, right or straight.

$\angle ABC = 135°$

    a. Acute

    b. Straight

    c. Right

    d. Obtuse

9. $\angle XYZ = 75°$, $\angle GHJ = (3x + 15)°$, $given\ that\ \angle XYZ \cong \angle GHJ\ solve\ for\ x.$

    a. $x = 20$

    b. $x = 30$

    c. $x = 15$

    d. $x = 5$

Theorems and Postulates

10. What is a theorem?

    a. A rule we cannot prove and accept on faith

    b. A rule that can be proved

    c. Something we think is true

    d. The method we use to solve a geometry problem