Geometry Unit 2 Review

1. What point is collinear to C and D?

E

A

F

D

B

G

C


2. State the intersection of plane HGCD and plane ABCD

3. What lines are skew to AD? (There are four)

4. How many points does it take to create a line? How many points does it take to create a plane?

5. Draw a rectangular plane ABC

6. Draw line $\overleftrightarrow{RS}$

7.

48°

8. What is the difference between a line, a segment, and a ray? Draw line XY, segment XY, and ray XY. Name them using the correct notation.

9. Find x then find each angle measurement. 10. Find y then find each angle measurement (including the non-labeled angles)



1. The dimensions of a soccer field are 76 yards by 120 yards. A player kicks the ball from a corner to her teammate in the exact center of the field. What is the distance, to the nearest yard, the ball travels?
2. A high school basketball team is going to Cleveland to see a NBA game. A coordinate grid is superimposed on a highway map of Ohio. The high school is at point (2, 4) and Quicken Loans Arena is at the point (7, 1). The map shows a highway rest stop halfway between the cities. What are the coordinates of the rest stop? What is the approximate distance between the high school and the stadium? (One unit ~ 3.7 miles)

1. On the $(x,y)$ coordinate plane, $∆ABC$ has coordinates $A\left(-7, 5\right), B\left(-2, -2\right), C\left(1,3\right)$. What is the length of the segment that joins vertex A with the midpoint of $\overbar{BC}$? Round to the nearest tenth.
2. $M$ is the midpoint of $\overbar{AB}$ for the points A(4, -3) and B(-6, 5). Find $MB$. Round to the nearest tenth.
3. Angle A and Angle B are supplementary. If angle A =x, what is the measure of angle B in terms of x?
4. 4 times the measure of the supplement o an angle is 100 degrees more than 9 times the measure of the angle’s complement. Find the measure of the angle, it’s complement, and it’s supplement.
5. Draw each of the following.

$\overbar{AB}$

$\overleftrightarrow{AB}$

$\vec{AB}$

$\vec{BA}$

Chapter 1 review – 2 questions from chapter 1 will show up on the chapter 2 test!

1. Write the equation of the line in
2. slope-intercept form
3. standard form.
4.  Graph the equation 3x+6y=18. Identify the intercepts.

x- intercept \_\_\_\_\_\_

y- intercept \_\_\_\_\_

Write definitions of the following in your own words.

1. Adjacent Angles
2. Angle
3. Bisect
4. Collinear
5. Complementary Angles
6. Coplanar
7. Line
8. Noncollinear
9. Noncoplanar
10. Plane
11. Point
12. Ray
13. Segment
14. Supplementary Angles
15. Vertical Angles