1-1 Opener - The Geometric System

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Use the axioms to make **three** conclusions about the high school track meet.

**RUNNING TRACK** The Purple Hurricanes high school track team has 8 boys and 8 girls. The girls wear gold track suits, and the boys wear purple. Everyone competed in Thursday’s track meet. All members of the other team wore green suits.

• The Hurricanes won 3 first-place finishes.

• Two winners wore purple suits.

• There were 8 races in all, which included 4 boys and 4 girls.

1. Classify each figure as either synthetic geometry or analytic geometry.

**A blue and pink circle with a black background

Description automatically generatedA graph of x and y axis

Description automatically generated**

**A graph of a hexagon with blue lines

Description automatically generated**

1-1 Exit Slip - The Geometric System

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Use the axioms to make **one** conclusion about the pizzas, subs, and sodas.

**PIZZERIA** Magi’s Pizzeria serves pizzas and subs. Magi made 100 pizzas and 100 subs on Saturday. He earned $1700 this day.

• A sub costs half as much as a pizza.

• Magi sold all the pizzas and subs he made.

• He sold 200 sodas at $1 each.

1. Classify the following figures as analytic geometry or synthetic geometry.

**A blue and pink line in a circle

Description automatically generatedA hexagon with a blue line on a grid

Description automatically generatedA blue and pink triangle with lines in the center

Description automatically generated**

1-2 Opener – Points, Lines, and Planes

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

A drawing of a cube with lines and dots

Description automatically generatedUse the figure to answer the questions.

1. How many planes are shown in the figure?
2. Which side of the cube is coplanar with plane P?

Name the geometric terms modeled by each figure.

A rectangular glass frame with a blue background

Description automatically generatedA tennis ball with white stripes

Description automatically generatedA close-up of a ruler

Description automatically generated

1-2 Exit Slip – Points, Lines, and Planes

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1) Draw and label a figure for the following statement. Points P, Q, and R lie on .

2) Name the geometric terms modeled by each figure.

A computer screen with a loading bar

Description automatically generated

Light pole

1-3 Opener – Line Segments

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the measure of each segment.

A blue and pink line with a dot

Description automatically generated

A blue dot on a black background

Description automatically generated

**A blue dot on a black background

Description automatically generated**

1. Find the value of the variable and YZ if Y is between X and Z.

XY = 3p, YZ = 2p – 1, XZ = 6p – 6

XY = 32, YZ = 7d, XZ = 74

1-3 Exit Slip – Line Segments

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the measure of each segment.

A blue line with a dot in the middle

Description automatically generated**A blue dot on a black background

Description automatically generated**

1. Find the value of the variable and YZ if Y is between X and Z.

XY = 9m – 3, YZ = 6m + 1, XZ = 13m + 6

1-4 Opener – Distance

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1) Use the number line to find each measure.

**A blue dots on a black background

Description automatically generated**

2) Determine whether the given segments are congruent.

**Blue lights on a black background

Description automatically generated**

and and

1. Find the distance between the two points.

and

1-4 Exit Slip - Distance

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1) Use the number line to find each measure.

**A black background with a black square

Description automatically generated with medium confidence**

2) Determine whether the given segments are congruent.

**Blue lights on a black background

Description automatically generated**

A graph of a function

Description automatically generated

and

1. Find the distance of the points on the graph.

1-5 Opener – Locating Points on Number Lines

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Use the number line to answer the questions:

A black background with a black square

Description automatically generated with medium confidence

Find the coordinate of point N that is of the distance from K to F.

Find the coordinate of point M such that the ratio of to is 1:2.

Find the coordinate of point G such that the ratio of to is 4:1.

1-5 Exit Slip – Locating Points on Number Lines

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Use the number line to answer the following questions.

A black background with a black square

Description automatically generated with medium confidence

Find the coordinate of point G such that the ratio of to is 3:2.

Find the coordinate of point E that is of the distance from R to T.

Find the coordinate of point O such that the ratio of to is 1:4.

1-6 Opener – Locating Points on Coordinate Plane

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the coordinates of point X on the coordinate plane for each situation.

A graph of a function

Description automatically generated

Point X on is of the distance from K to L.

1. Use the figure to answer the questions:

A graph of lines and dots

Description automatically generatedFind point Q on such that the ratio of to is 1:4.

Find point F on such that the ratio of to is 2:3.

1-6 Exit Slip – Locating Points on Coordinate Plane

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the coordinates of point X on the coordinate plane for each situation.

A graph of a line in a graph

Description automatically generated

Point X on is of the distance from P to Q.

1. Use the figure to answer the questions:

Find point A on that is of the distance from T to U.

A graph of a line graph

Description automatically generatedFind point M on that is of the distance from F to E.

1-7 Opener – Midpoints and Bisectors

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the coordinates of the midpoint of a segment with the given endpoints.

1. Find the coordinates of the missing endpoint if B is the midpoint of .

1. Suppose M is the midpoint of . Find each missing measure.

, ?

1-7 Exit Slip – Midpoints and Bisectors

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the coordinates of the midpoint of a segment with the given endpoints.

1. Find the coordinates of the missing endpoint if B is the midpoint of .

1. Suppose M is the midpoint of . Find each missing measure.