



Jakarta International School

8th Grade – AG1

Practice Test - Green

Points, Lines, and Planes

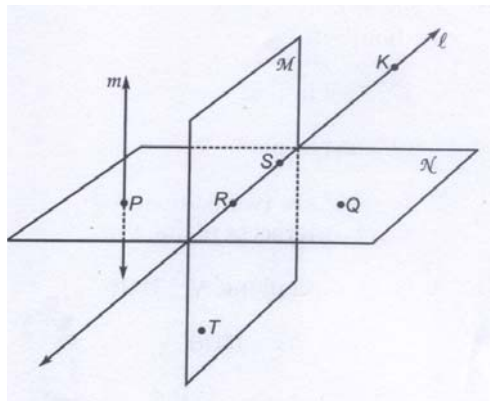
Name: _____

Date: _____

Score: 20

Goal 5: Solve problems using visualization and geometric modeling

Section 1: Points, Lines, and Planes

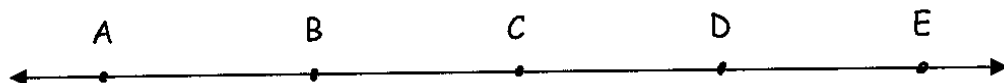


Use the diagram above to answer the following questions. (1.5 points per problem)

1. How many planes contain \overline{RS} ? _____
2. What is the intersection of line m and plane \mathcal{N} ? _____
3. Are R, P, S and T coplanar ? _____
4. What is the intersection of line ℓ and plane \mathcal{M} _____

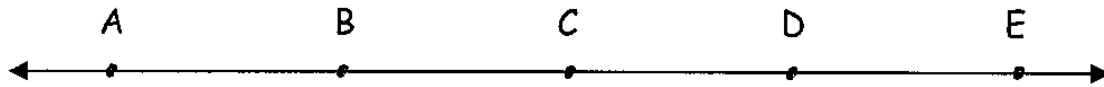
Section 2: Distance, Line Segments, and Rays

5. Using the number line below, state all the line segments congruent to \overline{AC} . (3 points)



Answers: _____

Use the following diagram for questions 6, 7, and 8 (3 points)



Find the intersection of:

6. \overline{AB} and \overline{CD} _____

7. \overline{CA} and \overline{CE} _____

8. \overline{AC} and \overline{DB} _____

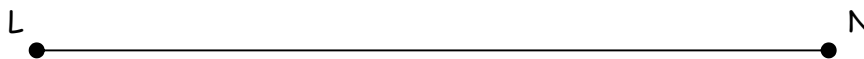
Section 3: Midpoints

9. On a number line, if the coordinate of point **A** is **-2** and a point **B** is **5**, find: (2 points)

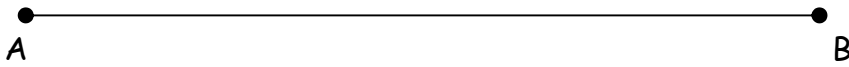
A. the coordinate of point **C** if **B** is the midpoint of \overline{AC}

B. the length of \overline{AC}

10. \overline{LN} is bisected at point **M**. The measure of \overline{LM} is $5x+4$. The measure of \overline{MN} is $11 - 2x$. Find the measure of \overline{LN} . (3 points)



Section 4: Constructions (3 points)



- Using a straight edge and a compass, construct a line segment congruent to \overline{AB} and name it \overline{CD} .
- Bisect \overline{CD} at point P
- Place point M on \overline{PD} and construct a perpendicular line through M so that $\overline{LM} \perp \overline{PD}$.