

Name: _____
Geometry

Date: _____
Band: _____

Locus Homework

LT#12: Draw and describe a locus.

What is a sketch and description for each locus of points?

1. points in a plane 1 cm from \overleftrightarrow{AB}

2. In a plane, points equidistant from two points X and Y AND points 2 cm from the midpoint of \overline{XY}

3. In a plane, the points that are equidistant from two parallel lines

4. In space, the points that are equidistant from two parallel planes

5. points in a plane 4 cm from a point X

6. points in a plane 2 in. from \overline{UV}

7. points in a plane 3 mm from \overleftrightarrow{LM}

8. points in a plane 1 in. from a circle with radius 3 in.

9. How are the words *locus* and *location* related?

10. How are the descriptions for the locus of points for each situation alike? How are they different?

- In a plane, the points equidistant from points J and K
- In space, the points equidistant from points J and K