

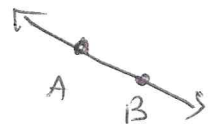
MR. REDDY'S NOTES:-

1.1. POINTS, LINES AND PLANES:-

1. POINT: A POINT HAS NO DIMENSION. IT IS REPRESENTED BY A DOT.
• A \rightarrow POINT A

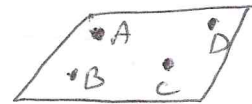
2. LINE: IT HAS ONE DIMENSION. IT IS REPRESENTED BY A LINE WITH TWO ARROWHEADS, BUT IT EXTENDS WITHOUT ENDS.

LINE L, LINE AB (\overleftrightarrow{AB}) OR LINE BA (\overleftrightarrow{BA})



3. PLANE: A PLANE HAS TWO DIMENSIONS. IT IS REPRESENTED BY A SHAPE WHICH LOOKS LIKE A FLOOR OR A WALL, EXTENDS WITHOUT ENDS.

NOTE: NEED THREE POINTS FOR A PLANE.

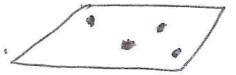


PLANE M OR PLANE ABC

4. COLLINEAR POINTS: POINTS THAT LIE ON THE SAME LINE.



5. COPLANAR POINTS: POINTS THAT LIE IN THE SAME PLANE.



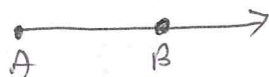
6. LINE SEGMENT:



A, B are called end-points.

\overline{AB} OR \overline{BA}

7. RAY: \overrightarrow{AB}



A IS THE END POINT.

8. LINE AB:



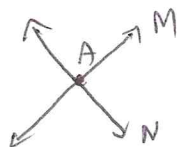
\overleftrightarrow{AB}

9. OPPOSITE RAYS:



\overrightarrow{CA} AND \overrightarrow{CB} are OPPOSITE RAYS.

10. INTERSECTION:



A IS THE POINT OF INTERSECTION OF TWO LINES:

LESSON 13
Practice B
For use with pages 15-22

Name _____ Date _____

1. Line RS bisects PQ at point R . Find RQ if $PQ = 14$ centimeters.

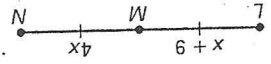
2. Line JK bisects MN at point J . Find MN if $JM = 6\frac{3}{4}$ feet.

3. Point T bisects UV . Find UV if $UT = 4\frac{1}{2}$ yards.

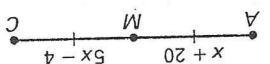
4. Point C bisects AB . Find CB if $AB = 14.8$ meters.

In the diagram, M is the midpoint of the segment. Find the indicated length.

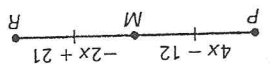
5. Find LN .



6. Find AM .



7. Find MR .



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

8. $S(4, -1)$ and $T(6, 0)$

10. $H(-5, 5)$ and $I(7, 3)$

9. $L(4, 2)$ and $P(0, 2)$

11. $G(-2, -8)$ and $H(-3, -12)$

Use the given endpoint R and midpoint M of RS to find the coordinates of the other endpoints.

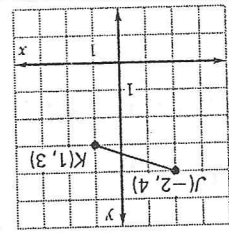
12. $R(6, 0)$, $M(0, 2)$

14. $R(-3, -2)$, $M(-1, -8)$

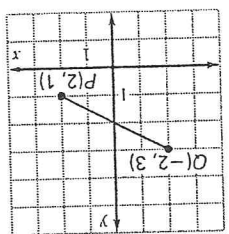
13. $R(3, 4)$, $M(3, -2)$

15. $R(11, -5)$, $M(-4, -4)$

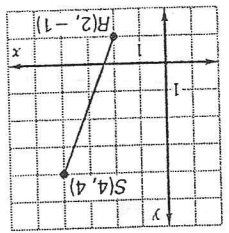
16.



18.



17.



19.

