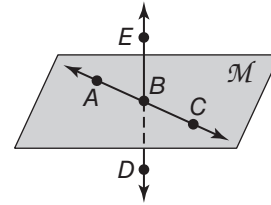## 1   Chapter 1 Mid-Chapter Test

SCORE _____

(Lessons 1-1 through 1-4)

Part I *Write the letter for the correct answer in the blank at the right of each question.*

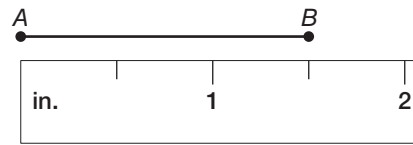**For Exercises 1 and 2, refer to the figure.**

1. Which point is coplanar with points A and C?

  A A **C** C

  B B **D** D

1. **B**

2. Name the point of intersection of plane $\mathcal{M}$ and $\overleftrightarrow{DE}$.

  F D **G** E **H** B **J** M

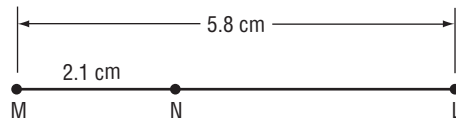2. **H**

3. What is the length of $\overline{AB}$?

  A about $1\frac{1}{4}$ in.   **C** about $1\frac{1}{2}$ in.

  B about $1\frac{3}{4}$ in.   **D** about 2 in.

3. **C**

4. Find the measure of $\overline{NL}$.

  F 2.1 cm   **H** 3.7 cm

  G 3.2 cm   **J** 7.9 cm
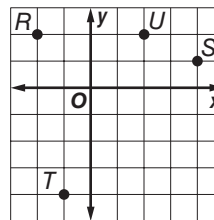
4. **H**

5. Ray NP is an angle bisector of $\angle MNQ$ and $m\angle PNQ = 2x + 1$. Find $m\angle MNQ$.

  A $4x + 1$ **B** $2x + 2$ **C** $4x + 2$ **D** $\dfrac{(2x + 1)}{2}$

5. **C**

Part II

For Exercises 6–8, use the coordinate grid.

6. Find the distance between R and S.

6. $\sqrt{37}$

7. Find the coordinates of the midpoint of $\overline{TU}$.

7. $\left(\frac{1}{2}, -1\right)$

8. Find the coordinates of a point M given that U is the midpoint of $\overline{MS}$.

8. **(0, 3)**

9. Find the value of y if M is the midpoint of $\overline{LN}$.
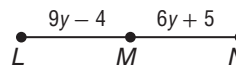
9. **3**

10. A giant slingshot is formed with ends held at points A and C. Barb has stretched it back and is holding it at point B. Donny Daredevil stands at the midpoint of the line segment AC. Which part of the angle does Donny lie on?

10. **interior**