

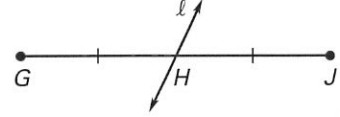
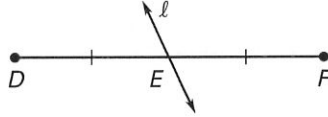
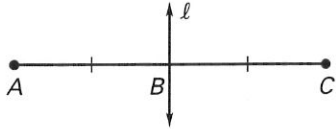
**LESSON**  
**1.3**

**Practice A**

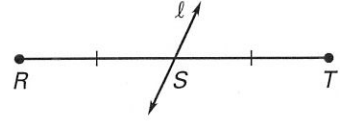
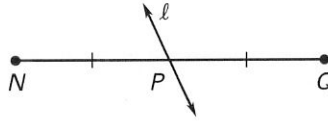
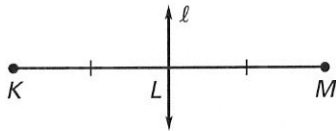
For use with the lesson "Use Midpoint and Distance Formulas"

**Line  $\ell$  bisects the segment. Find the indicated length.**

1. Find  $AC$  if  $AB = 6$  cm.      2. Find  $DF$  if  $DE = 17$  cm.      3. Find  $GJ$  if  $HJ = 8\frac{1}{4}$  in.



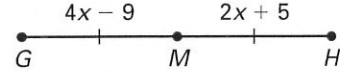
4. Find  $LM$  if  $KM = 24\frac{3}{4}$  in.      5. Find  $NP$  if  $NQ = 31.8$  cm.      6. Find  $ST$  if  $RT = 109$  in.



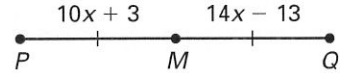
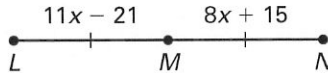
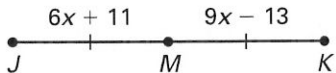
7. Line  $CD$  bisects  $\overline{AB}$  at point  $C$ . Find  $AC$  if  $AB = 56$  feet.  
8. Point  $W$  bisects  $\overline{UV}$ . Find  $UV$  if  $WV = 11\frac{1}{8}$  inches.

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

9. Find  $XM$ .      10. Find  $MF$ .      11. Find  $MH$ .



12. Find  $JK$ .      13. Find  $LN$ .      14. Find  $PQ$ .



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

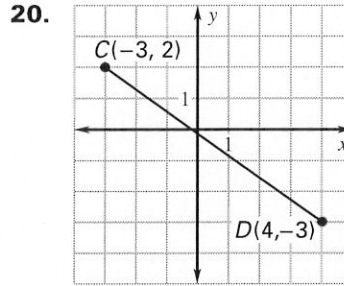
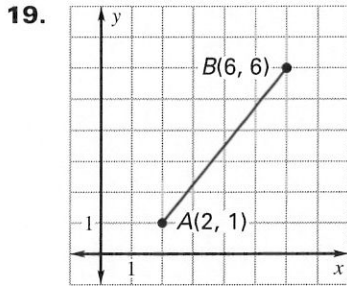
15.  $R(3, 1)$  and  $S(3, 7)$       16.  $V(2, 4)$  and  $W(6, 6)$

**Use the given endpoint  $Y$  and midpoint  $M$  of  $\overline{YZ}$  to find the coordinates of the other endpoint  $Z$ .**

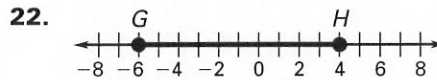
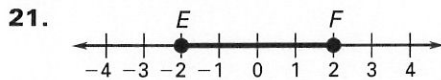
17.  $Y(0, 5), M(3, 3)$       18.  $Y(-1, -3), M(5, 9)$

**LESSON 1.3** **Practice A** *continued*  
 For use with the lesson "Use Midpoint and Distance Formulas"

**Find the length of the segment. Round to the nearest tenth of a unit.**



**Find the length of the segment. Then find the coordinate of the midpoint of the segment.**



**The endpoints of two segments are given. Find each segment length. Tell whether the segments are congruent.**

23.  $\overline{JK}$ :  $J(1, 1), K(0, 5)$

24.  $\overline{PQ}$ :  $P(4, 3), Q(-1, 6)$

$\overline{LM}$ :  $L(1, 1), M(-3, 2)$

$\overline{RS}$ :  $R(2, -3), S(-2, 0)$

25. **Distances** Your house and your school are 8.4 miles apart on the same straight road. A baseball field is halfway between your house and your school, on the same road.

- Draw a sketch to represent this situation. Mark the locations of the house, school, and field. How far is your house from the baseball field?
- You walk at an average speed of 3 miles per hour. About how long would it take you to walk from your house to the baseball field?

26. **Soccer** The diagram shows the position of three soccer players. Player *A* kicks the ball to Player *B*, who then kicks it to Player *C*. How far did Player *A* kick the ball? How far did Player *B* kick the ball? How far would Player *A* have kicked the ball if she had kicked it directly to Player *C*? Round all answers to the nearest tenth of a yard.

