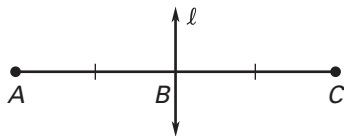


**LESSON**  
**1.3****Practice A**

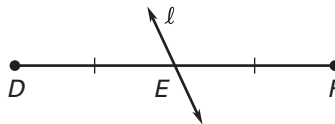
For use with pages 15–22

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

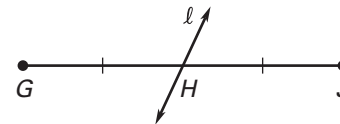
1. Find  $AC$  if  $AB = 6$  cm.



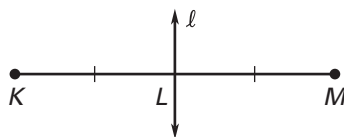
2. Find  $DF$  if  $DE = 17$  cm.



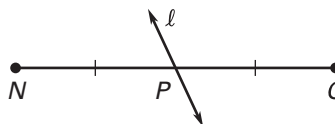
3. Find  $GJ$  if  $HJ = 8\frac{1}{4}$  in.



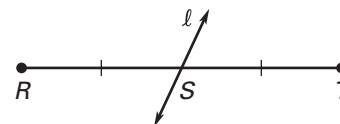
4. Find  $LM$  if  $KM = 24\frac{3}{4}$  in.



5. Find  $NP$  if  $NQ = 31.8$  cm.



6. Find  $ST$  if  $RT = 109$  in.

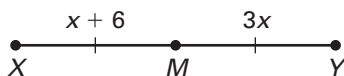


7. Line  $CD$  bisects  $\overline{AB}$  at point  $C$ . Find  $AC$  if  $AB = 56$  feet.

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.**

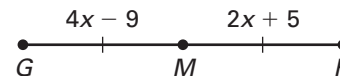
9. Find  $XM$ .



10. Find  $MF$ .



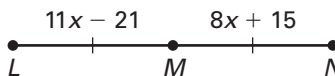
11. Find  $MH$ .



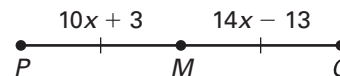
12. Find  $JK$ .



13. Find  $LN$ .



14. Find  $PQ$ .

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

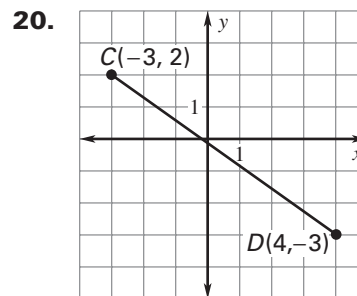
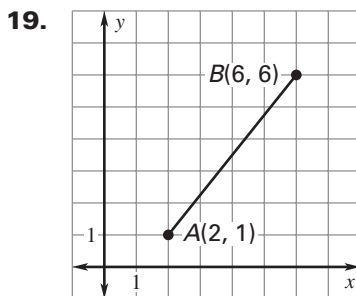
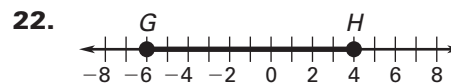
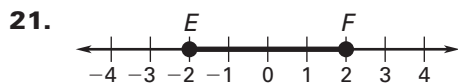
15.  $R(3, 1)$  and  $S(3, 7)$

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 pages 15–22**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 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.

