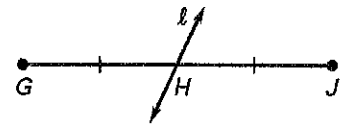
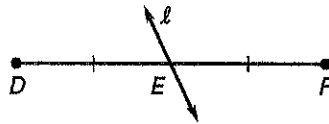
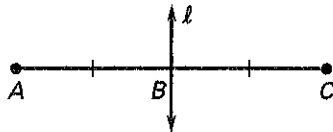


LESSON
1.3**Practice A**

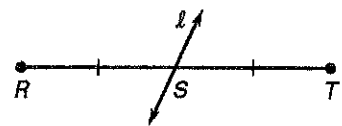
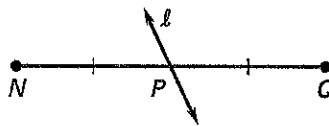
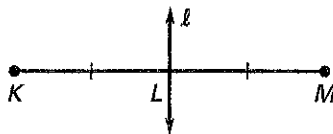
For use with the lesson "Use Midpoint and Distance Formulas"

Line ℓ 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.



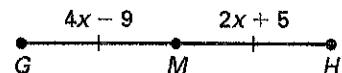
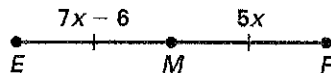
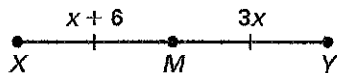
7. Line CD bisects $\overline{AB}$ at point C . Find AC if $AB = 56$ feet.
8. Point W bisects $\overline{UV}$. Find UV if $WV = 11\frac{1}{8}$ inches.

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

9. Find
- XM
- .

10. Find
- MF
- .

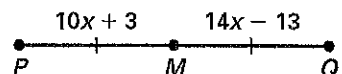
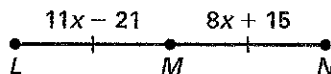
11. Find
- MH
- .



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.
- $Y(0, 5)$
- ,
- $M(3, 3)$

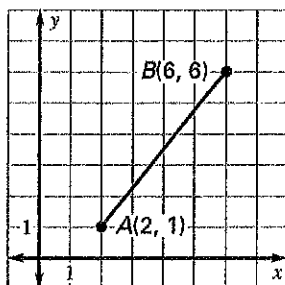
- 18.
- $Y(-1, -3)$
- ,
- $M(5, 9)$

LESSON
1.3**Practice A** *continued*

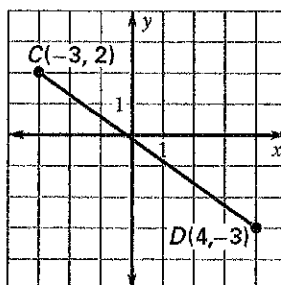
For use with the lesson "Use Midpoint and Distance Formulas"

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

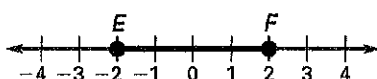
19.



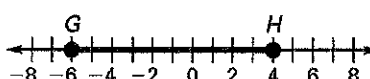
20.

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

21.



22.

**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.

