Name _____ Date _____

LESSON 1.2

Practice A

For use with the lesson "Use Segments and Congruence"

Measure the length of the segment to the nearest tenth of a centimeter.

1. A B

2. C D

3. E F

Find the indicated length.

4. Find GJ.

G 8 H 8 J

5. Find KM.

K 24 L 12 M

6. Find NQ.

N 4 P 17 Q

7. Find ST.

37

R 18 S T

8. Find UV.

56

U V 45 W

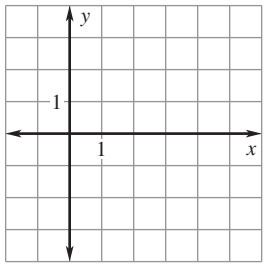
9. Find XY.

71

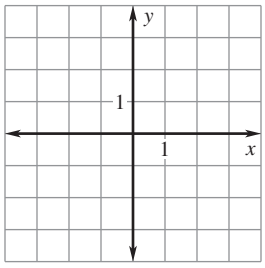
X Y 29 Z

Plot the given points in a coordinate plane. Then determine whether the line segments named are congruent.

10. $A(2, 2)$, $B(2, -1)$, $C(0, -2)$, $D(3, -2)$; $\overline{AB}$ and $\overline{CD}$



11. $E(-3, 2)$, $F(1, 2)$, $G(2, 3)$, $H(2, -2)$; $\overline{EF}$ and $\overline{GH}$



Use the number line to find the indicated distance.

J K L M

−9 −8 −7 −6 −5 −4 −3 −2 −1 0 1 2 3 4 5 6 7 8 9

12. JK

13. KL

14. LM

15. JL

16. JM

17. KM

Name _____ Date _____

LESSON 1.2

Practice A *continued*

For use with the lesson "Use Segments and Congruence"

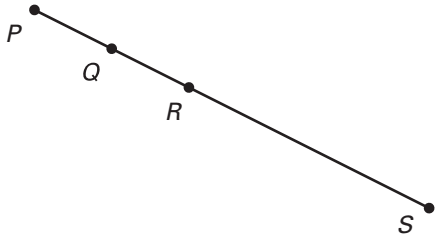
In the diagram, points *P*, *Q*, *R*, and *S* are collinear, *PS* = 46, *PR* = 18, and *PQ* = *QR*. Find the indicated length.

18. PQ

19. QR

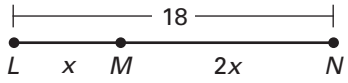
20. QS

21. RS

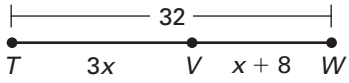


Find the indicated length.

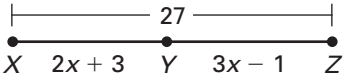
22. Find LM.



23. Find VW.



24. Find YZ.



Point *B* is between *A* and *C* on $\overline{AC}$. Use the given information to write an equation in terms of *x*. Solve the equation. Then find *AB* and *BC*.

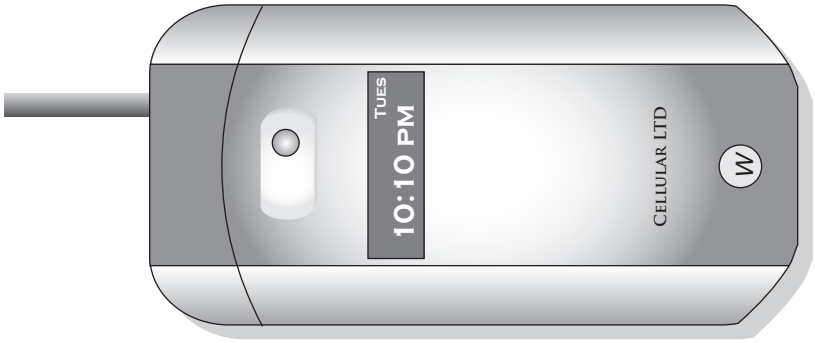
25. $AB = 3x$
$BC = x$
$AC = 20$

26. $AB = 2x - 5$
$BC = 6x$
$AC = 27$

27. $AB = 4x + 7$
$BC = 5x - 8$
$AC = 53$

28. Cellular Phone
Measure the length of the cellular phone (without the antenna) to the nearest $\frac{1}{8}$ inch.

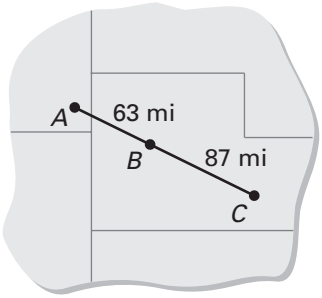
Then measure the length of the antenna to the nearest $\frac{1}{8}$ inch.



29. Highway You are traveling on a highway starting at point A. After you have traveled 63 miles (point B), you see a sign that says it is 87 miles to your destination (point C).

a. Find the total distance you will travel to get to your destination.

b. You are traveling at a constant speed of 60 miles per hour. How many hours will the entire trip take?



LESSON 1.2